

**ANDHRA PRADESH PUBLIC SERVICE COMMISSION: VIJAYAWADA**  
**NOTIFICATION NO.19/2021, Dt.16/11/2021**  
**DIRECT RECRUITMENT TO VARIOUS GAZETTED POSTS**  
**(GENERAL /LIMITED RECRUITMENT)**

**PARA – 1:**

- 1.1. Applications are invited through online from eligible candidates for various Gazetted posts (Carry Forward vacancies) details are at Para 1.11.
- 1.2. The candidate shall apply online through Commission's Website <https://psc.ap.gov.in> from **08/12/2021 to 28/12/2021 (Note: 27/12/2021)** is the last date for payment of fee upto 11:59 mid night).
- 1.3. The applicant who desires to apply for the above posts shall login the Commission's Website, with his/her registered OTPR number. In case the candidate is applying for the first time to the posts notified by A.P.P.S.C. he/she shall register his/her bio-data particulars through One Time Profile Registration (OTPR) on the Commission's Website viz., <https://psc.ap.gov.in> Once applicant registers his/her particulars, a user ID is generated and sent to his/her registered mobile number and email ID.
- 1.4. The selection to the post shall be on the basis of Written Examination in Computer Based Recruitment Test mode conducted by the Commission. The Dates of Written Examination will be announced separately.
- 1.5. The candidates are required to visit the Commission's website regularly to keep themselves updated about dates of written examinations are to be held. The examination would be in objective type and questions are to be answered on computer system. Instructions regarding computer based recruitment test are attached as Annexure - III. The medium of Examination will be **English only except for post code No.04. For post code 04, the medium of examination will be bilingual (English & Telugu).**
- 1.6. A general Mock Test facility is available to the applicants to acquaint themselves with the computer based recruitment test. Applicant can visit the website and practice the answering pattern under MOCK TEST option available on main page of website <https://psc.ap.gov.in>
- 1.7. The applicant is required to visit the Commission's website regularly to keep himself / herself updated until completion of the recruitment process. The Commission's website information is final for all correspondence. No individual correspondence by any means will be entertained under any circumstances.
- 1.8. HALL TICKETS for the written Examination will be hosted on Commission's website for downloading. Instructions would be given through the website regarding downloading of Hall Tickets.
- 1.9. All desirous and eligible candidates shall apply online after satisfying themselves as per the terms and conditions of this recruitment notification. Any application sent through any mode other than the prescribed online mode will not be entertained under any circumstances. Submission of application form by the candidate is considered that he / she has read the notification and shall abide by the terms and conditions laid down there under.
- 1.10. **If a candidate is eligible for more than one post he/she is required to pay the fee for each post and apply for each post separately.**
- 1.11. The details of vacancies are as follows:-

**Gazetted posts**

P.C. No.	Name of the Post	Age as on 01.07.2021	Scale of pay (Rs)	State wise/ Zone wise vacancies				No of vacancies
				I	II	III	IV	
01	Fisheries Development Officer in A.P. Fisheries Service	18-42	29,760-80,930/-	02	09	-	-	11
02	Sericulture Officer In A.P Sericulture Service		35,120 - 87,130/-	-	-	-	01	01
03	Agriculture Officer In A.P Agriculture Service		03	01	01	01	06	
04	Divisional Accounts Officer (works) Grade –II in A.P.Works Accounts Service		29,760-80,930/-	State wide				02

05	Technical Assistant in A.P Police Service	21-28	40,270-93,780/-	State wide		01
06	Assistant Commissioner of Endowments in A.P. Charitable and Hindu Religious Institutions and Endowments Service	28-42	31,460-84,970/-	MZ-I	MZ -II	03
				02	01	
07	Assistant Director of Horticulture in A.P.Horticulture Service	18-42	40,270-93,780/-	State wide		01

**PARA-2: ELIGIBILITY:**

- i. He / She is of sound health, active habits and free from any bodily defect or infirmity rendering him/her unfit for such service;
- ii. His / Her character and antecedents are such as to qualify him/her for such service;
- iii. He /She possesses the academic and other qualifications prescribed for the post; and
- iv. He/ She is a citizen of India:

Provided that no candidate other than a citizen of India may be appointed except with the previous sanction of the State Government and except in accordance with such conditions and restrictions as they may be laid down. Such sanction shall not be accorded unless the State Government are satisfied that sufficient number of citizens of India, who are qualified and suitable are not available.

**PARA-3: EDUCATIONAL QUALIFICATIONS TO VARIOUS POSTS:**

The candidate should possess the prescribed academic qualification as per the date of this notification. **The date of this notification** shall be the crucial date for calculating the experience including the practical experience. **In respect of other than prescribed Educational Qualifications, claiming equivalence, the decision of the concerned department (Unit Officer) shall be final.**

**Note:** If the applicant possesses an equivalence of qualification other than prescribed qualification in the Commission's notification, applicant should produce a copy of the Government Orders to the Commission in advance within 10 days of last date for submitting applications, failing which their application will be rejected.

P.C.No.	Name of the post	Qualification
01	Fisheries Development Officer in A.P. Fisheries Service	Must possess a minimum qualification of Bachelor of Fisheries Science (B.F.Sc.) from any recognized University of India (As per G.O.Ms.No.32, Animal Husbandry Dairy Development and Fisheries (Fish.I) Dept., Dated:16-04-2011)
02	Sericulture Officer In A.P Sericulture Service	Must possess Second Class Masters Degree in Science with Sericulture or Botany or Zoology as subjects of study or a Bachelors Degree in Agriculture from any university established or incorporated by or under a Central Act or Provincial Act or a State Act or an Institution registered by University Grants Commission. Preference shall however be given to candidates possessing Masters Degree in Sericulture or holding post graduate diploma in Sericulture from any recognised University or Institution as an additional qualification.
03	Agriculture Officer In A.P Agriculture Service	Must possess a Degree of Bachelor of Science in Agriculture of a recognized University in the State or any other University Accredited by Indian Council of Agricultural Research (ICAR).
04	Divisional Accounts Officer (works) Grade –II in A.P.Works Accounts Service	Must possess Bachelor's Degree in a recognized University in India established or incorporated by or under a Central Act, or a State Act, or an Institution recognized by the University Grants Commission or any equivalent qualifications.

05	Technical Assistant (Automobile Engineering) in A.P Police Transport Organisation	<p>Must possess a Bachelor's degree in Automobile engineering or Mechanical engineering with Automobile engineering as one of the subjects of a University in India established or incorporated by or under a central Act, Provincial Act, or a State Act or an Institution recognised by the University Grants Commission or an equivalent qualification.</p> <p>ii) Must possess practical experience of not less than two years in R.T.C workshop or defence motor transport workshop or in any workshop of a motor transport manufacturing concern or a reputed work shop handling repairs and maintenance of motor vehicle or in any State Government workshop handling repairs and maintenance of motor vehicles.</p> <p>iii) Must have ability to read and write one of the three languages namely Telugu, Hindi and English.</p> <p><b>Physical measurements</b></p> <p>a) must not be less than 167.6 cm in height b) must not be less than 86.3 cm round the chest on full inspiration with a minimum expansion of 5 cm</p> <p>Provided that in case of candidates belonging to Schedule Tribes and Aboriginal Tribes where the reserved quota cannot be fully utilized for want of sufficient candidates possessing the requisite physical standards the physical standards shall be as specified below.</p> <ol style="list-style-type: none"> <li>1. Must not less than 164 cm in height and must not less than 83.80 cm round the chest on full inspiration with minimum expansion of 5 cm.</li> <li>2. Must be certified to possess the visual standards specified below without glasses</li> </ol> <p>(i) Right eye: Distance vision 6/6 Near vision : 0.5 Left eye: 6/6 snellen o.5 (snellen)</p> <p>(ii) Each eye must have a full field of vision</p> <p>(iii) Colour blindness, squint or any morbid condition of the eyes or lids of either eye, knock- knees and pigeon chest, flat foot, varicose veins, hammer toes, fractured limbs and decayed teeth shall be deemed to be disqualification.</p>
06	Assistant Commissioner of Endowments in A.P. Charitable and Hindu Religious Institutions and Endowments Service	<p>Graduation in Law. 3 Years practice as an Advocate in High Court of Andhra Pradesh. Candidate must profess Hindu Religion as per the Endowment Act 30/87</p>
07	Assistant Director of Horticulture	<p>Must possess M.Sc (Horticulture) with basic 4 years B.Sc, Horticulture Degree / B.Sc (Hons) Degree in Horticulture of a Recognized University in the State or any Other University Accredited by the Indian Council of Agriculture Research (ICAR), Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi.</p>

**PARA- 4 RESERVATIONS:**

- 4.1. There will be reservations in direct recruitment in respect of Scheduled Tribes, Scheduled Castes, Backward Classes, Physically handicapped persons, Women and Meritorious Sports Persons as per Rule 22 and 22 (A) of A.P. State and Subordinate Service Rules.

**Note: 1 a). For Post Code No.02 PH persons are not eligible.**

**b). For Post Code No.05 PH reservation restricted to OH category only.**

**2. The candidates belonging to SC, ST, BC, EWS & PH and who avails upper age relaxation will also be considered for open category vacancies”**

- 4.2. In the case of candidates who claim the benefit of reservation or relaxation from upper age limit on the basis of Caste/Tribe or Community the basic document of proof of Community will be the Certificate issued by the Revenue Authorities not below the rank of Tahsildar in the case of SC/ST and Non Creamy Layer Certificate issued by the Revenue Authorities in the case of Backward Classes. The list of Caste/Tribe/Community is as incorporated in Schedule-I of above Rules. The list is also appended at Annexure –IV. The candidates have to produce proof of the community claimed in their application at all stages of selection along with the certificates relating to Educational Qualifications and local status certificates etc.,. Subsequent claim of change of community will not be entertained.
- 4.3. The person with disability means a person suffering from not less than forty percent of any disability as certified by a medical authority except hearing Impairment. Hearing Impairment means loss of sixty decibels or more in the better ear in the conversational range of frequencies which corresponds to 85 dBs Hearing threshold on the audiogram in the better ear i.e., 85 dB hearing level in audiogram – 25 dB upper limit of normal hearing = 60 dBs hearing loss as per provision under “Person with Disabilities Act, 1995”.
- 4.4. Caste & Community: Community Certificate issued by the competent authority in terms of G.O. Ms No. 58, SW (J) Dept., dt.12/5/97 should be submitted at appropriate time. As per A.P. State and Subordinate Service Rules, Rule -2(28) Explanation: In so far as claiming for SC reservation is concerned, No person who professes a religion different from Hinduism shall be deemed a member of Schedule Caste. However, scheduled caste converts to Buddhism deemed to be scheduled caste. BCs, SCs & STs belonging to other States are not entitled for reservation.
- 4.5. There shall be Reservation to Women horizontally to an extent of 33 1/3% in terms of rule 22 -A of APSSS Rules as per G.O. Ms. No. 63, GA (Ser-D) Dept., dated: 17.04.2018.
- 4.6. If eligible disabled candidates of a particular category are not available, to fill up the carry forward vacancy, the same shall be filled-up by the method of interchanging as per G.O.Ms.No.99, General Admn (Services -D) Dept., dated: 04.03.2013. Hence, the candidates of all disabled categories and other than disabled persons are allowed to apply.
- 4.7. Reservation to BC-E group will be subject to the adjudication of the litigation before the Hon'ble Courts including final orders in Civil Appeal No: (a) 2628-2637 of 2010 in SLP. No. 7388-7397 of 2010, dated. 25/03/2010 and orders from the Government.
- 4.8. The reservation to meritorious sports persons will apply as per G.O.Ms.No.13, GA (Ser-D) Dept., dated: 23.01.2018, G.O.Ms.No.74, Youth, Advancement, Tourism and Culture (Sports) Dept., dated: 09.08.2012, G.O.Ms.No.473, Youth, Advancement, Tourism and Culture (Sports) Dept., dated: 03.12.2018 and G.O.Ms.No.08, Youth, Advancement, Tourism and Culture (Sports) Dept., dated: 23.11.2020.
- 4.9. The candidates claiming reservations under sports quota shall submit following documents at the time of verification of original certificates.  
For Group I & equivalent Category post – Candidates should have represented India in an International / Multinational Competition in One of the recognized Sports/ Games. He /She shall submit Form I at appropriate time.  
For Group II, III & equivalent Category post – Candidates should have represented India in a National Competition in One of the recognized Games / Sports certificate along with Form II.
- 4.10. Evaluation of various physical disabilities and procedure for certification will be as per the orders contained in G.O.Ms. No. 56, WD, CW & DW (DW) Dept., dated 02.12.2003 and G.O.Ms. No. 31, WD, CW & DW (DW) Dept., dated 01.12.2009.
- 4.11. The candidates claiming status of non-creamy layer of Backward Class have to obtain a Certificate in terms of G.O. Ms. No. 3, Backward Classes Welfare (C-2) Department, Dated 04.04.2006 read with G.O. Ms. No. 26 Backward Classes Welfare(C) Department, Dated 09.12.2013 regarding their exclusion from the Creamy Layer from the competent authority (Tahsildar) and produce the same at appropriate time of verification. In case of failure

to produce the same on the day of verification, the Candidature will be considered against open competition even if he / she is otherwise eligible in all aspects.

- 4.12. For post Code No:06 Reservation for local candidates is not applicable as the posts are organized into Multi-Zones. Selection shall be made on state wide merit and allotment to Multi-Zones as per preference given by candidate, in terms of departmental Special / Adhoc rules, and as per Memo No. 63608/Endt. (1)/ 2007-5 Rev (Endt.) Dept., Dt. 19/4/08.
- 4.13. The reservations and relaxations to different categories/communities are applicable only in case of availability of vacancies to the respective category/ community as announced through this notification.

**PARA - 5: RESERVATION TO LOCAL CANDIDATES:**

- 5.1. The specification of a post is determined by the concerned Department with reference to both vertical and horizontal reservations as well as local reservation. The reservations are specified through the indent by the concerned department and the general criteria with regard to reservations are given below.
- 5.2. Reservation to the Local candidates is applicable as provided in Article 371-D as per G.O.Ms.No.674, G.A (SPF- A) Department, dated.20.10.1975 and rules as amended from time to time and as in force on the date of notification. The candidates claiming reservation as Local candidates should obtain the required Study Certificate(s) (from IV Class to X Class or SSC) OR Residence Certificate in the proforma prescribed for those candidates who have not studied in any Educational Institutions as the case may be. The relevant certificates with authorized signature shall be produced as and when required.

**PARA -6 DEFINITION OF LOCAL CANDIDATE:**

- 6.1. A local candidate has been defined in G.O.Ms.No.674, General Administration (SPF-A) Department, dated: 20.10.1975 "LOCAL CANDIDATE" as follows:

"Local Candidate:- (1) A candidate for direct recruitment to any post shall be regarded as a local candidate in relation to a local area.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) "if he /she has studied in an educational institution or educational institutions in such local area for a period of not less than four consecutive academic years ending with the academic year in which he /she appeared or, as the case may be, first appeared for the relevant qualifying examination; or

(ii) where during the whole or any part of the four consecutive academic years ending with the academic year in which he /she appeared or as the case may be, first appeared for the relevant qualifying examination he/she has not studied in any educational institution, if he /she has resided in that local area for a period of not less than four years immediately preceding the date of commencement of the qualifying examination in which he /she appeared or as the case may be, first appeared.

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he/she has resided in that local area for a period of not less than four years immediately preceding the date on which the post is notified for recruitment.

Explanations:- For the purpose of the paragraph.

(i) educational institution means a University or any educational institution recognized by the State Government, a University or other competent authority;

(ii) relevant qualifying examination in relation to a post means;

(a) the examination, a pass in which the minimum educational qualification is prescribed for the post;

(b) the Matriculation examination or an examination declared by the State Government to be equivalent to the Matriculation examination;

whichever is lower; and

(iii) In reckoning the consecutive academic years during which a candidate has studied, any period of interruption of his /her study by reason of his /her failure to pass any examination shall be disregarded.

(iv) the question whether any candidate for direct recruitment to any post has resided in any local area shall be determined with reference to the places where the candidate actually resided and not with reference to the residence of his /her parents or other guardian (Vide G.O.Ms.No.168, G.A. (SPF.A) Dept., dt.10-3-77).

(2) A candidate for direct recruitment to any post who is not regarded as a local candidate under sub paragraph (1) in relation to any local area shall.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) if he /she has studied in educational institutions in the State for a period of not less than seven consecutive academic years ending with academic year in which he /she appeared or as the case may be, first appeared for the relevant qualifying examination, be regarded as a local candidate in relation to

(1) Such local area where he /she has studied for the maximum period out of the said period of seven years; or

(2) where the periods of his /her study in two or more local areas are equal, such local areas where he /she has studied last in such equal periods;

(ii) if during the whole or any part of the seven consecutive academic years ending with the academic years in which he /she appeared or as the case may be first appeared for the relevant qualifying examination, he/she has not studied in the educational institutions in any local area, but has resided in the State during the whole of the said period of seven years, be regarded as a local candidate in relation to

(1) such local area where he /she has resided for a maximum period out of the said period of seven years: or

(2) where the periods of his/her residence in two or more local areas are equal, such local areas where he /she has resided last in such equal periods;

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he/she has resided in the State for a period of not less than seven years immediately preceding the date on which the post is notified for recruitment, be regarded as a local candidate in relation to

(i) such local area where he /she has resided for the maximum period out of the said period of seven years; or

(ii) where the periods of his /her residence in two or more local areas are equal such local area where he/she has resided last in such equal periods " .

(G.O.Ms.No.168, dated 10-3-1977)

- 6.2. Single certificate, whether of study or residence as stipulated in G.O.Ms.No.674, General Administration (SPF-A) Dept., dated:20.10.1975 would suffice for enabling the candidate to apply as a "LOCAL CANDIDATE".
- 6.3. Residence certificate will not be accepted, if a candidate has studied in any Educational Institution upto S.S.C. or equivalent examination. Such candidates have to produce study certificates invariably. The candidates, who acquired degree from open Universities directly without studying in any Educational Institution, only may submit residence certificate. Here Educational Institutions mean a recognized Institution by the Government / University/Competent authority.
- 6.4. Candidates are advised to refer provisions of the PRESIDENTIAL ORDER 1975 in this regard.
- 6.5. Candidates who migrated from Telangana to Andhra Pradesh between 2<sup>nd</sup> June, 2014 and 1<sup>st</sup> June, 2021 as per G.O.Ms.No. 130, General Administration (SPF&MC) Department, dated.29.10.2019 and as per terms laid down in circular memo no.4136/SPF & MC/2015-5, Dated.20.11.2017 of Government of Andhra Pradesh shall obtain the Local Status Certificate from competent authority and produce at the time of verification.
- 6.6. The composition of Districts in each zone is as hereunder:  
Zone-I: Srikakulam, Vizianagaram and Visakhapatnam. (SKM, VZM,VSP.)  
Zone-II: East Godavari, West Godavari and Krishna. (EG, WG, KST)  
Zone-III: Guntur, Prakasam and Nellore. (GNT, PKM, NLR)  
Zone-IV: Chittoor, Kadapa, Anantapur and Kurnool. (CTR, CDP, ATP, KNL)

The candidates belongs to other States are not entitled for local Reservations.

6.7. The composition of Districts in each Multi -zone is as hereunder:

Multi-Zone-I: Srikakulam, Vizianagaram and Visakhapatnam. (SKM, VZM,VSP)

East Godavari, West Godavari and Krishna. (EG, WG, KST)

Multi-Zone-II: Guntur, Prakasam and Nellore. (GNT, PKM, NLR)

Chittoor, Kadapa, Anantapur and Kurnool. (CTR, CDP, ATP, KNL)

6.8. **For Post Code Nos. 04, 05 and 07 local reservations are not applicable as these posts are State wide cadre. Post Code No.06 is Multi Zone Post.**

**PARA- 7 AGE:**

7.1. Minimum 18 years & Maximum 42 years as on 01/07/2021, as per G.O.Ms.No.105, GA (Ser-A) Dept., Dt.27.09.2021 for post code Nos: 01, 02, 03, 04 & 07

N.B.: No person shall be eligible if less than 18 years and is more than 42 years.

**For P.C.No:05 The lower age limit 21 years, upper age limit 28 years**

**For P.C.No:06 The lower age limit 28 years, upper age limit 42 years**

7.2. *Age Relaxation* is applicable to the categories as detailed below :

S. No.	Category of candidates	Relaxation of age permissible
1.	SC and ST	10 Years
2.	BCs and EWS	5 Years
3.	Physically Handicapped Persons	10 Years
4.	Ex-Service men	Shall be allowed to deduct from his age a period of 3 years in addition to the length of service rendered by him in the armed forces / NCC.
5.	N.C.C. (who have worked as Instructor in N.C.C.)	
6.	Regular A.P. State Government Employees (Employees of Corporations, Municipalities etc. are not eligible).	Allowed to deduct from his age the length of regular Service under State Government up to a maximum of five years for the purposes of the maximum age limit.

**EXPLANATION:**

Provided that the persons referred to at Sl.Nos.4 & 5 above shall, after making the deductions referred to in sub Rule 12 (c) (i) & (ii) of A.P. State and Subordinate Service Rules not exceed the Maximum age limit prescribed for the post.

The age relaxation for Ex-Servicemen is applicable for those who have been released from Armed Forces other than by way of dismissal or discharge on account of misconduct or inefficiency.

**PARA - 8 HOW TO APPLY:**

**STEP-I:** The applicant desires to apply for the post shall login the Commission's Website with his/her registered OTPR number. Candidate applying for the first time for any notification has to first fill the OTPR application carefully to obtain OTPR ID. While filling the OTPR, the candidate has to ensure that the particulars are filled correctly. The Commission bears no responsibility for the mistakes, if any, made by the candidates. If candidates choose to modify they may do so by clicking the modify OTPR make the modification, save them and proceed to STEP-II.

**STEP-II:** The Applicant has to Login in the Commission's website with the User Name (OTPR ID) and the Password set by Candidate. After Login, the Applicant has to click on the "Online Application Submission" present in the bottom right corner of the Commission's website.

**PAYMENT PROCESS:** The applicant now has to click on the payment link against the notification number that he wants to apply. The basic details required for calculation of the fee and age relaxation will be pre-populated from the OTPR data. The applicant has to verify all the details that are displayed. Once the payment form is submitted, the respective details (used for Calculation of fee and age relaxation) will not be altered in any stage of application processing. Hence if any details are to be changed, applicant should use the modify OTPR link, modify the details, save it and again click on application payment link.

**STEP-III:** After checking all the data and ensuring that the data is correct the applicant has to fill application specific data such as Local/Non Local status, White card details etc., which are also used to calculate the Fee. Once all the data is filled appropriately, the applicant has to submit the payment form. On successful submission, the payment reference ID is generated and is displayed on the screen. By clicking "OK" the applicant is shown the various payment options where he/she can select any one among them and complete the payment process as given on the screen.

**STEP-IV:** Once the payment is successful, payment reference ID is generated. Candidates can note the payment reference ID for future correspondence. Thereafter the applicant is directed to the application form. Applicant should provide the payment reference Id generated along with the other details required for filing the application form (other fields like OTPR ID and fees relaxations details will be pre-populated from the data submitted in the payment form for respective notification). The Applicant should check the data displayed thoroughly and should fill the application specific fields like Qualification details, Post preferences, examination centre etc., carefully and submit the Application form. Once the Application is submitted successfully then Application Receipt is generated. The Applicant is requested to print and save the application receipt for future reference/correspondence.

**NOTE:** Applicant shall note that the data displayed from OTPR at the time of submitting the application will be considered for the purpose of this notification only. Any changes made by the applicant to OTPR data at a later date shall not be considered for the notification on hand.

**STEP-V:** In any case if the payment process is not submitted successfully, then the applicant should start the fresh payment process as mentioned in STEP-II.

**STEP-VI:** Once the application is submitted successfully, correction in application form will be enabled. The corrections can be made in the application form itself. Fields which affect the Name, fee and age relaxations are not enabled for corrections.

**NOTE:**

A. The Commission is not responsible, for any omissions made by the applicant in bio-data particulars while submitting the application form online. The applicants are therefore, advised to strictly follow the instructions given in the user guide before submitting the application.

B. All the candidates are requested to submit their application with correct data. It is noticed that some of the candidates are requesting for change in the data, after submission of the application. It is informed that such requests shall be allowed on payment of Rs.100/- (Rupees Hundred Only) for each correction. However changes are not allowed for Name, Fee and age relaxation. No manual application for corrections shall be entertained. Corrections in the application will be enabled after the last date of the submission of application and will be allowed upto 7 days only from the last date of applications.

C. The particulars furnished by the applicant in the application form will be taken as final. Candidates should, therefore, be very careful in uploading / submitting the application form online.

D. Incomplete/incorrect application form will be summarily rejected. The information if any furnished by the candidate subsequently will not be entertained by the Commission under any circumstances. Applicants should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny, the candidature will be rejected even though he/she comes to the final stage of recruitment process or even at a later stage and also liable for punishment as per Para 16.1 of this notification.

E. Before Uploading/Submission Application Form, the Candidates should carefully ensure his/her eligibility for this examination. No relevant column of the application form should be left blank; otherwise application form will not be accepted.

**PARA - 9: (a) FEE:**

9.1. Applicant must pay Rs. 250/- (Rupees Two Hundred and Fifty Only) towards application processing fee and Rs 120/- (Rupees one hundred and twenty only) towards Examination Fee.

**Note: If candidate is eligible for more than one post is required to pay the fee for each post and apply each post separately.**

9.2. However, the following categories of candidates are exempted from payment of examination fee Rs.120/- only.



- i) SC, ST, BC, PH & Ex-servicemen
- ii) Families having Household Supply White Card issued by Civil Supplies Department, A.P. Government. (Residents of Andhra Pradesh)
- iii) *Un-employed youth as per G.O.Ms.No.439, G.A (Ser-A) Department, dated: 18/10/1996 should submit declaration at an appropriate time to the Commission.*

(a) Applicants belonging to the categories mentioned above hailing from other States are not entitled for exemption from payment of fee and not entitled for claiming any kind of reservation.

iv) Candidates belonging to other States shall pay the prescribed fee of Rs.120/- (Rupees one hundred and twenty only), along with processing fee of Rs. 250/- (Rupees Two Hundred and Fifty only) through different channels as indicated at Para-8. Otherwise such applications will not be considered and no correspondence on this will be entertained.

### 9.3. **b) MODE OF PAYMENT OF FEE:**

i) The fee mentioned in the above paragraph is to be paid online using payment Gateway using Net Banking/ Credit card / Debit Card. The list of Banks providing service for the purpose of online remittance of Fee will be available on the Website.

ii) The fee once remitted shall not be refunded or adjusted under any circumstances. Failure to pay the examination fee and application fee (in non-exempt case) will entail total rejection of application.

iii) IPOs / Demand Drafts are not accepted.

iv) In case of corrections Rs.100/- per correction will be charged. However changes are not allowed for Name, Fee and age relaxation.

### **PARA-10: SCHEME OF EXAMINATION:-**

The Scheme & Syllabus for the examination has been shown in Annexure-II.

### **PARA - 11: CENTRES FOR THE EXAMINATIONS:**

The centres of examination will be announced separately. The applicant may choose the Test centre with three preferences. However the Commission reserves the right to allot the applicant to any centre of examination depending on the availability of the resources like centers / systems.

### **PARA – 12 RESOLUTION OF DISPUTES RELATED TO QUESTION PAPER, ANSWER KEY AND OTHER MATTERS**

- 12.1. The Commission would publish the key on its website after conduct of the examination. Any objections with regard to the key / questions shall be filed within one week after publication of the key in the prescribed proforma available in the website.
- 12.2. The objections received in the prescribed proforma within due date will be referred to Expert Committee for opinion to take appropriate decision thereon by the Commission. As per decision of the Commission a revised key will be hosted and further objections only in respect of keys that are revised would be called for a period of three working days from the date of publication of revised key. No further objections on original key will be entertained at this stage. If any objections raised on revised key will again be referred to experts. Taking into consideration of the opinion of the Expert Committee and based on the decision of the Commission the final key would be hosted on website.
- 12.3. The objections if any would be examined and the decision of the Commission in this regard shall be final. Any objection filed after expiry of specified time from the date of publication of key / revised key would not be entertained.
- 12.4. **For post code 04** the question paper will be bilingual (English & Telugu). The paper is set in English and translated in to Telugu language. English version will be considered as the authentic version for valuation purpose.

### **PARA -13 NOTE ON IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS:**

- 13.1. Vacancies: The recruitment will be made to the vacancies notified only. There shall be no waiting list as per G.O. Ms. No. 81, General Administration (Ser. A) Department, Dated 22/02/1997, G.O.Ms.No.544, General Administration (Ser. A) Department, Dated:04.12.1998 and Rule 6 of APPSC Rules of Procedure. In any case, no cognizance will be taken by Commission of any vacancies arising or reported after the completion of the selection and recruitment process or the last date as decided by the Commission as far as this Notification is concerned, and these will be further dealt with as per G.O. & Rule cited above. As per G.O.Ms.No:139 Finance HR (I) Planning Policy Dept., dt:28/07/2016 Rule 7 of APPSC Rules of procedure regarding relinquished vacancies has been deleted.

- 13.2. The recruitment will be processed as per this notification and as per the Rules and Instructions issued by the Government and also as decided by the Commission from time to time in terms of respective Special Rules/Adhoc Rules governing the Recruitment in a) G.O.Ms.No.88, Animal Husbandry Dairy Development and Fisheries (FISH.I) Dept., dated:08.09.1999, G.O.Ms.No.316, Food and Agriculture (Fish.I) Dept., dated:09.04.1991 and G.O.Ms.No.32, Animal Husbandry Dairy Development and Fisheries (FISH.I) Dept., dated:16.04.2011 b) G.O.Ms.No.41, Agriculture & Co-operation (Seri) Dept., dated:17.03.1998 and G.O.Rt.No.924, Agriculture and Cooperation (Seri)Dept., dated:23.10.2003 c) G.O.Ms.No.16, Agrl. & Coop., (FP.1) Department, dated:21-01-2000, G.O.Ms.No.79, Agri. Coop (Agri.I) Dept., Dated:18.10.2017, G.O.Ms.No.01, Agrl. & Coop., (FP.1) Department, dated:03-01-2017, d) G.O.Ms.No.86, Finance & Planning (FW.WA.1) Dept., dated: 22.05.1998 e) G.O.Ms.NO.306, Home (Police. E) Dept., dated:24.10.1998 f) A.P. Charitable and Hindu Religious Institutions and Endowment Service Rules -2002 G.O.Ms.No.245 Revenue (Endts-I) Dept., dated:08.05.2002, g)G.O.Ms.No.776 Food & Agriculture (Agri-II) Dept., Dt:15/09/1989, G.O.Ms.No.04 Agriculture and Cooperation (Horticulture)Department,Dt:07/01/2011, G.O.Ms.No.10 Agri & Cooperation(H&S) Dept., Dt:02/03/2021 and Special Rules / Adhoc Rules Governing the recruitment and other related GOs, Rules etc., are applicable.
- 13.3. Rules: The various conditions and criteria prescribed herein are governed by the A.P. State and Subordinate Service Rules, 1996 read with the relevant Special Rules applicable to any particular service in the departments. Any guidelines or clarification is based on the said Rules, and, in case of any necessity, any matter will be processed as per the relevant General and Special Rules as in force.
- 13.4. The Commission is empowered under the provisions of Article 315 and 320 of the Constitution of India read with relevant laws, rules, regulations and executive instructions and all other enabling legal provisions in this regard to conduct examination for appointment to the posts notified herein, duly following the principle of order of merit as per Rule 3(vi) of the APPSC Rules of Procedure read with relevant statutory provisions and ensuring that the whole recruitment and selection process is carried out with utmost regard to secrecy and confidentiality so as to ensure that the principle of merit is scrupulously followed.
- 13.5. Zonal/Local: In terms of Para 4 of the G.O., A.P. Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.Ms.No.674, G.A. (SPF-A) Dept., dated: 20/10/1975) read with G.O.Ms.No.124, General Administration (SPF-A) Department, dated: 07/03/2002, Memo No.42005/Ser.D/2002-1 dated 28.08.2002, "the provisional list shall be divided into two parts. The first part shall comprise 30% of the posts consisting of combined merit lists of locals as well as non-locals and the remaining second part shall comprise the balance 70 % of the posts consisting of locals only and the posts shall be filled duly following the rule of reservation for **Post Code Nos. 01 and 02**. For **Post Code No.03**, first part shall comprise 40% of the posts consisting of combined merit lists of locals as well as non-locals and the remaining second part shall comprise the balance 60% of the posts consisting of locals only and the posts shall be filled duly following the rule of reservation.
- Note: 1. For Post Code Nos. 04 , 05 and 07 local reservations are not applicable as these posts are State wide cadre.**  
**2: For Post Code Nos. 06 local reservations are not applicable as these posts are Multi Zone cadre**
- 13.6. Scheme is prescribed as per G.O.Ms.No.141, Finance (HR.1 & Planning and Policy) Dept., dated:01.08.2016 and G.O.Ms.No.201, Finance (HR-I Plg, & Policy) Dept., dated:21.12.2017, G.O.RT.No.276,GA(Ser-A) Dept., dated:08.02.2019 read with G.O.Ms.No.58, GA (Ser.A) Dept., dt:26/06/21.
- 13.7. The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are however required to inform, in writing, to their Head of Office/ Department that they have applied for this recruitment.
- 13.8. A candidate shall be disqualified for appointment, if he himself or through relations or friends or any others has canvassed or endeavoured to enlist for his candidature, extraneous support, whether from official or non-official sources for appointment to this service.
- 13.9. The Degrees through Open Universities / Distance Education mode shall required to have recognition by the Distance Education Council, Government of India. Unless such Degrees have been recognised by the D.E.C. they will not be accepted for purpose of Educational Qualification. The onus, in case of doubt, of Proof of recognition by the D.E.C. that their Degrees / Universities have been recognised, rests with the candidate. Candidates may also refer G.O.R.T.No.143, Higher Education (EC) Dept., Dated: 11.07.2018 and the Supreme Court judgment CA Nos.17869 -17870/2017 dated: 03.11.2017 in this connection.

**PARA- 14 The candidate shall go through the Annexures appended to the notification before filling the application form**

Annexure- I- Break up of vacancies  
Annexure- II- Scheme & Syllabus  
Annexure- III- Instructions to candidates  
Annexure- IV- LIST OF SC / ST /BC's

**PARA-15: PROCEDURE OF SELECTION:**

- 15.1. The selection to this recruitment notification will be based on the Merit in the written Exam to be held as per the Scheme and Syllabus shown at Annexure - II. The selection of candidates for appointment to the post will be made on the basis of Written Examination.
- 15.2. Appearance in all the papers of examination (computer based test) is compulsory. Absence in any of the papers will automatically render the disqualification of the candidature.
- 15.3. The standard for the examination and the cut off marks for various categories for selection shall be fixed by the Commission. However the candidates have to secure minimum qualifying marks to be short listed for selection against respective vacancies. The minimum qualifying marks for the vacancies notified under different categories are as follows as per G.O.Ms.No.103, G.A. (Ser.A) Dept., dt.03.02.1967.
- |                           |     |
|---------------------------|-----|
| 1. Open competition & EWS | 40% |
| 2. Backward Class         | 35% |
| 3. SCs, STs & PHs         | 30% |
- N.B.: Mere securing of minimum qualifying marks does not confer any right to the candidate for being considered to the selection.
- 15.4. The claims of members of the Scheduled Castes, Scheduled Tribes, Backward Classes, Economically Weaker Sections and Women as the case may be, shall also be considered for the vacancies earmarked for open competition, which shall be filled on the basis of open competition. In respect of social reservations viz., Scheduled Castes, Scheduled Tribes, Backward Classes, the vertical reservation will be applicable and the number of appointments reserved for that category shall in no way be affected during the period the reservation for that category is in force.
- 15.5. In the event of Schedule Caste & Schedule Tribe candidates not coming up for selection with the existing minimum prescribed for selection in the competitive examination conducted by the APPSC their selection shall be considered on the basis of rank with reference to their performance in the written and / or oral competitive examination irrespective of the marks secured, as per G.O.Ms.No.631, G.A. (Ser.A) Dept., dt.05.09.1977.
- 15.6. Where the candidates get equal number of marks in the written Examination if two or more candidates get equal total number of marks, those candidates shall be bracketed. Candidates within the same bracket shall then be ranked 1, 2, 3 etc., according to age i.e., oldest being considered for admission. In case there is tie in age, the person who possesses educational qualification at earlier date would be considered.
- 15.7. With regard to situation where there is deletion of questions, if any, from any paper, scaling (proportionate increase) would be done for that particular part of the paper to the maximum marks prescribed for the paper and the marks would be rounded off to 2 decimals to determine the merit of the candidate.
- 15.8. While the Commission calls for preference of candidates in respect of posts, Multi-zones, zones etc., in the application form, it is hereby clarified that the said preferences are only indicative for being considered to the extent possible but not binding or limiting the Commission's powers under Article 315 and 320 of the Constitution of India. Therefore, the Commission has the power to assign a candidate to any of the notified posts for which he/she is considered to be qualified and eligible, subject to fulfilling the selection criterion. Mere claim of preference for any Zone or Multi- Zone for allotment against vacancy does not confer a right to selection for that Zone or Multi-Zone in particular or any Zone or Multi- Zone in general.
- 15.9. The appointment of selected candidates will be subject to their being found medically fit in the appropriate medical classification, and if he/she is of sound health, active habits and free from any bodily defect or infirmity.
- 15.10. ANSWER KEY AND MARKS: Answer key would be published on the website. No separate memorandum of marks would be issued.

**PARA-16: DEBARMENT:**

- 16.1. Candidates should make sure of their eligibility to the post applied for and that the declaration made by them in the format of application regarding their eligibility is correct in all respects. Any candidate **furnishing in-correct information or making false**

**declaration regarding his/her eligibility at any stage or suppressing any information** is liable TO BE DEBARRED UPTO FIVE YEARS FROM APPEARING FOR ANY OF THE EXAMINATIONS CONDUCTED BY THE COMMISSION, and summary rejection of their candidature for this recruitment.

- 16.2. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked **if malpractice and unfair means are noticed at any stage** of the recruitment. Further candidates shall be liable for penalty as per G.O.Ms.No.385,G.A.(Ser. A) Dept., Dt.18/10/2016. The Chief Superintendent of the examination centre is authorized to take decision in case of malpractice or usage of unfair means or creation of disturbance or use of physical force by any candidate and report the matter to the competent authority as well as register a police case.
- 16.3. The Commission is vested with the Constitutional duty of conducting recruitment and selection as per rules duly maintaining utmost secrecy and confidentiality in this process and any attempt by anyone causing or likely to cause breach of this constitutional duty in such manner or by such action as to violate or likely to violate the fair practices followed and ensured by the Commission will be sufficient cause for rendering such questionable means as ground for debarment and penal consequences as per law and rules as per decision of the Commission.
- 16.4. Any candidate found **impersonating or procuring impersonation by any person** or resorting to any other irregular or improper means in connection with his / her candidature for selection or obtaining support of candidature by any means, such a candidate may in addition to rendering himself/ herself liable to criminal prosecution, be liable to be debarred permanently from any exam or selection held by the Service Commissions in the country.
- 16.5. **ELECTRONIC GADGETS BANNED:**
- (a) The use of any mobile (even in switched off mode), calculator or any electronic equipment or programmable device or storage media like pen drive, smart watches etc., or camera or blue tooth devices or any other equipment or related accessories either in working or switched off mode capable of being used as a communication device during the examination is strictly prohibited. Any infringement of these instructions shall entail disciplinary action including ban from future examinations.
- (b) Candidates are advised, in their own interest, not to bring any of the banned items including mobile phones to the venue of the examination, as arrangement for safe – keeping cannot be assured.

**PARA-17: COMMISSION'S DECISION TO BE FINAL:**

The decision of the Commission in all aspects and all respects pertaining to the application and its acceptance or rejection as the case may be, conduct of examination and at all consequent stages culminating in the selection or otherwise of any candidate shall be final in all respects and binding on all concerned, under the powers vested with it under Article 315 and 320 of the Constitution of India. Commission also reserves its right to alter and modify the terms and conditions laid down in the notification for conducting the various stages up to selection or withdraw the notification at any time duly intimating details thereof to all concerned, as warranted by any unforeseen circumstances arising during the course of this process, or as deemed necessary by the Commission at any stage.

**PLACE: VIJAYAWADA**  
**Date:16/11/2021**

**sd/-**  
**P.S.R.Anjaneyulu, I.P.S.,**  
**Secretary.**

**ANNEXURE-I**  
**NOTIFICATION NO.19/2021.**  
**THE DETAILED VACANCY POSITION**  
**P.C.No.01 FISHERIES DEVELOPMENT OFFICER IN A.P. FISHERIES SERVICE**

CATE GORY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1	02
BC-A	-	-	-	-	-	-	1	1*	-	-	-	-	-	-	-	-	-	-	1	1	02
BC-D	-	-	1	-	-	-	1*	1	-	-	-	-	-	-	-	-	-	-	2	1	03
BC-E	-	-	1	-	-	-	1*	-	-	-	-	-	-	-	-	-	-	-	2	-	02
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	01
OH	-	-	-	-	-	-	1*	-	-	-	-	-	-	-	-	-	-	-	1	-	01
TOTAL	-	-	2	-	-	-	5	04	-	-	-	-	-	-	-	-	-	-	7	4	11

O.C - Open Competition , SC - Scheduled Caste, ST - Scheduled Tribe, BC – Backward Classes, VH-Visually Handicapped, HH- Hearing Handicapped, OH-Orthopedically Handicapped.

- Note:** 1). As per GO. Ms. NO.436 General Administration (Ser-D) Department, Dt.15/10/1996 and in terms of Rule 22(h) (ii) of AP State & Subordinate Service Rules1996, if no candidate is available for the said **03\* BC** CF vacancies, interchanging Procedure would be followed.
- 2). As per G.O.Ms.No.99, General Administration (Ser-D) Dept, dated. 04/03/2013, if no candidate is available for the said **01\* OH** C.F Vacancy, interchanging procedure would be followed. Hence, the candidates of all disabled categories and other than disabled persons are allowed to apply.

**P.C.No.02 SERICULTURE OFFICER IN AP SERICULTURE SERVICE**

CATE GORY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
BC -C	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	01
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	01

**P.C.No.03 AGRICULTURE OFFICER IN AP AGRICULTURE SERVICE**

CATE GORY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
BC -E	-	-	-	01*	01	-	-	-	-	-	-	-	-	-	-	01	-	-	01	02	
SC	01	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01	-	-	02	
ST	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	01	-	-	01	
Sports quota	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	01	-	-	-	01	
TOTAL	01	-	01	01	01	-	-	-	-	01	-	01	-	-	03	-	02	01	06		

- Note:** 1). As per GO. Ms. NO.436 General Administration (Ser-D) Department, Dt.15/10/1996 and in terms of Rule 22(h) (ii) of AP State & Subordinate Service Rules1996, if no candidate is available for the said **01\* BC-E(W)** CF vacancy, interchanging Procedure would be followed.

**P.C.No.04 Divisional Accounts Officer (works) Grade –II in A.P.Works Accounts Service**  
**STATE WIDE**

CATEGORY	CF Vacancies		Total		Grand Total
	G	W	G	W	
BC-B	01	-	01	-	01
PH(HH)	-	01*	-	01	01
TOTAL	01	01	01	01	02

**Note:- 1).** As per G.O.Ms.No.99, General Administration (Ser-D) Dept, dated. 04/03/2013, if no candidate is available for the said **01\* HH (W)** C.F Vacancy, interchanging procedure would be followed. Hence, the candidates of all disabled categories and other than disabled persons are allowed to apply.

**P.C.No:05 TECHNICAL ASSISTANT IN A.P.POLICE TRANSPORT ORGANIZATION**

CATEGORY	State Wide Vacancies		TOTAL		GRAND TOTAL
	G	W	G	W	
BC-A	-	01*	-	01	01
TOTAL	-	01	-	01	01

**Note:- 1).** As per GO. Ms. NO.436 General Administration (Ser-D) Department, Dt.15/10/1996 and in terms of Rule 22(h) (ii) of AP State & Subordinate Service Rules1996, if no candidate is available for the said **01\* BC-A (W)** CF vacancy, interchanging Procedure would be followed.

**P.C.No.06 ASSISTANT COMMISSIONER OF ENDOWMENTS A.P. CHARITABLE & HINDU RELIGIOUS INSTITUTIONS & ENDOWMENTS SERVICE**

CATEGORY	MULTI ZONE-1		MULTI ZONE-2		TOTAL		GRAND TOTAL
	G	W	G	W	G	W	
OC	-	01	-	-	-	01	01
BC-B	-	01	-	-	-	01	01
ST	-	-	-	01*	-	01	01
TOTAL	-	02	-	01	-	03	03

**Note: 1).** As per GO. Ms. NO.436 General Administration (Ser-D) Department, Dt.15/10/1996 and in terms of Rule 22(h) (ii) of AP State & Subordinate Service Rules1996, if no candidate is available for the said **01\* ST (W)** CF vacancy, interchanging Procedure would be followed.

**P.C.No.07 ASSISTANT DIRECTOR IN A.P. HORTICULTURE SERVICE**

STATE WIDE POST		
Category	No. of Vacancies	TOTAL
VH (W) CF	01*	01

**Note:1).** As per G.O.Ms.No.99, General Administration (Ser-D) Dept, dated. 04/03/2013, if no candidate is available for the said **01\* VH (W)** C.F Vacancy, interchanging procedure would be followed. Hence, the candidates of all disabled categories and other than disabled persons are allowed to apply.

**ANNEXURE – II**  
**NOTIFICATION NO.19/2021, Dt.16/11/2021**

**SCHEME AND SYLLABUS**

**P.C N.o: 01 FISHERIES DEVELOPMENT OFFICERS IN A.P. FISHERIES SERVICE**

**SCHEME**

WRITTEN EXAMINATION (OBJECTIVE) Degree Standard				
Paper	Subject	No. Of Questions	Duration (Minutes)	Maximum Marks
Paper - I	General Studies & Mental Ability	150	150	150
Paper - II	Fisheries Science - I	150	150	150
Paper - III	Fisheries Science - II	150	150	150
Total				450
<b>N.B:</b> As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) Dept, Dt: 06/12/2016, for each wrong answer will be penalized with 1/3 <sup>rd</sup> of the marks prescribed for the question in all Objective type papers.				

**SYLLABUS**

**PAPER-I: GENERAL STUDIES AND MENTAL ABILITY**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and its applications to the day to day life Contemporary developments in Science & Technology and information Technology.
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
  - a) Tabulation of data
  - b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

**PAPER-II Fisheries Science-I**

1. General principles of Taxonomy, outline classification and General characters on Non-Chordates and Chordates
2. General study of Parasitic and Pathogenic Protozoans, Helminthes and Arthropods with reference to Fish and Prawn culture
3. Phylum chordata – class – pisces – taxonomy – classification – general Morphology and Anatomy of chondrichthyes and osteich-thyes and osteichthyes – general distribution of fish
4. Fish growth – Morphometric and Meristic characters
5. Food and feeding habits with special reference to Digestion in Fish
6. Respiration and osmo-regulation in fishes
7. Endocrine system of fishes
8. Reproductive system and breeding habit in fishes
9. Adaptations – migration of fishes
10. Parental care of fishes

### **PAPER-III Fisheries Science-II**

1. Culturable varieties of fish (indigenous and exotic) and Prawns
2. Breeding methods – Natural – bundh – induced breeding.
3. Fresh water aqua culture – fresh water fishery resources preparation and management of ponds – Aquatic weeds and control.
4. Brackish water aquaculture – Brackish water fishery resources – management of brackish water ponds.
5. General aspects of marine biology and mariculture – Mussel culture – Oyster culture – Fish and Crab culture and sea-weed culture
6. Study of major group of plankton and their importance in aquaculture
7. General account of fish and prawn diseases and their control.
8. General principles of Ecology – aquatic ecosystem with reference to fresh water brackish water and marine environment
9. General methods of preservation and processing of fishes and prawns
10. Economic importance of fisheries – Fish by-products.

### **P.C.No:02 SCHEME AND SYLLABUS FOR THE POST OF SERICULTURE OFFICER IN A.P SERICULTURE SERVICE**

#### **SCHEME** **(DEGREE STANDARD)**

<b>Written Examination (Objective Type)</b>				
<b>PAPER</b>	<b>Subject</b>	<b>No.of Questions</b>	<b>Durations (Minutes)</b>	<b>Maximum Marks</b>
Paper - I	General Studied & Mental Ability	150	150	150
Paper - II	Sericulture - I	150	150	150
Paper - III	Sericulture – II (Agriculture and Biosciences)	150	150	150
Total				450
<b>N.B:</b>	As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) 06/12/2016, for each wrong answer will be penalized with 1/3 <sup>rd</sup> of the marks prescribed for the question.			Dept, Dt:

#### **Syllabus**

#### **PAPER-I: GENERAL STUDIES AND MENTAL ABILITY**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and it applications to the day to day life Contemporary developments in Science & Technology and information Technology.
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:  
a) Tabulation of data



- b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

**PAPER-II**  
**SERICULTURE – I**

**1. GENERAL INTRODUCTION TO SERICULTURE AND ITS DISTRIBUTION IN INDIA.**

Types of silk produced in India- Status of mulberry and non-mulberry Sericulture in India and at Global level- Economic importance - Scope of Sericulture in India- Employment potential and income generation of sericulture industry- History of Sericulture

**2. MULBERRY CULTIVATION**

Taxonomy and morphology of mulberry - Mulberry classification -Varieties and their distribution.

Mulberry cultivation practices under irrigated and rainfed conditions and schedule of package of practices

Suitable soils- Location and climate for mulberry cultivation

Mulberry propagation: Sexual and Vegetative propagation

Cuttings: Preparation of Cuttings - Raising of nurseries

Grafting: Stem - Root - Bud grafting techniques

Layering: Ground- Air- Trench layering methods

Planting systems: Row system- Pit system -Paired row system

Fertilizer schedules for irrigated and rainfed mulberry gardens

Pruning: Objectives and methods

Harvesting- Transportation - Preservation of mulberry leaves.

**3. DISEASES AND PESTS OF MULBERRY**

Diseases: General account of mulberry diseases - Foliar diseases - Root diseases - Stem diseases –Causes – Symptoms-Preventive and control measures

Deficiency diseases – Causes – Symptoms-Preventive and control measures

Nematodes infesting mulberry- Occurrence- Distribution- Crop loss- Preventive and control measures

Pests: Leaf hoppers- Scale insects- Mealy bugs- White flies- Hairy caterpillars- Leaf cutters- Termites- Distribution- Signs of attack- Crop losses –Preventive and control measures - Integrated pest management (IPM)

**4. SILKWORM BIOLOGY AND PHYSIOLOGY**

Systematic position of mulberry silkworm- External morphology of silkworm-Egg, Larva, Pupa and Adult - Embryology-Structure of Egg-Fertilization-Cleavage-Blastoderm-Germ band formation-Blastokinesis-Involution of the embryo

Physiology of Digestion-Respiration-Circulation-Excretion-Glandular system-Reproduction

**5. PREPARATION FOR SILKWORM REARING**

Number of cocoon crops per year – Silkworm races - Model rearing house – Different types of rearing houses – Rearing appliances - Sanitation – Importance and methods of disinfection – Different disinfectants – Bed disinfectants

**6. REARING TECHNOLOGIES**

Chawki Rearing Concept: Procurement silkworm eggs – Incubation – Black Boxing - Brushing of silkworms – Young age silkworm rearing technology - Late age silkworm rearing technology - Cleaning - Spacing -Objectives of spacing – Optimum spacing for different ages – Care during molting - Feeding behavior –Frequency- Preservation and quantity of mulberry leaf – Artificial diet - Environmental factors – Optimum conditions – Devices to control temperature and humidity.

Mounting and spinning: Methods of mounting – Types of mountages – Population Density – Care during mounting spinning process – Harvesting of Cocoons – Time of Harvest – Cocoon sorting – Assessment – Transportation and Marketing.

## **7. SILK WORM EGG PRODUCTION**

Marketing of seed cocoons and price fixing- Silkworm seed organization and its significance (bivoltine and multivoltine).

Grainage operations: Procurement and preservation of seed cocoons- Sex separation- Moth emergence- Mating- Oviposition – Sheet and loose egg preparation - Packing and sale of eggs - Mother moth examination- Surface sterilization of eggs- Acid treatment of hibernating eggs - Embryonic growth - Hibernating (Diapausing) eggs - Techniques of cold storage of eggs - Artificial hatching

## **8. SILKWORM DISEASES**

Types of diseases – Etiology – Viral diseases : Nuclear polyhedrosis – Cytoplasmic polyhedrosis – Infectious flacherie – Densonucleosis – Causative agents – Symptomology- Prophylactic measures

Bacterial diseases: Bacterial diseases of digestive tract-Bacterial septicemia – Toxicosis – Causative agents- Symptomology- Prophylactic measures

Fungal diseases: White muscardine – Types – Causative agents – Life Cycle – Symptomology- Prophylactic measures

Protozoan diseases: Pebrine – History Causative agent – Life Cycle – Mode of Transmission – Symptomology- Prophylactic measures

## **9. PESTS OF SILKWORM**

Pests of Silkworm: Uzi fly – Classification - Morphology and life cycle of the parasitoid – Extent of crop loss – Management of Uzi fly menace – Dermested beetles – Life Cycle and control

## **10. COCOON ASSESSMENT AND PROCESSING TECHNOLOGIES**

Cocoon properties-Assessment –Types of defective cocoon - Shell percentage -Shell ratio - Filament length - Denier - Renditta- Raw silk percentage. Cocoon stifling /drying- Objectives - Cocoon storage and preservation of cocoon in silk reeling units- Cocoon boiling/cooking- Different methods

## **11. SILK REELING TECHNOLOGY**

Silk reeling: Country charakha- Improved charakha - Cottage basin – Multiend- Semi automatic - Automatic reeling machines - Passage of thread in various reeling machines- Functions of components of reeling machines- Reeling basin- Jettebout- Porcelain button- Croissure- Chambon type and tavellette type- Guide pulley -Tension pulley- Traverse mechanism- Reel- Swift- Reel stop motion- Denier control device-Re reeling

## **12. SILK TESTING AND SPUN SILK PROCESSING**

Raw silk testing- Visual and mechanical tests - Winding test- Size test- Tenacity- Elongation test-Evenness, cleanness and neatness tests- Cohesion, Testing and grading -Spun silk industry- Raw materials- Processing at different stages of spun silk fibers

## **13. NON-MULBERRY SERICULTURE**

Introduction to Eri, Tasar and Muga culture- Distribution – Classification and Life cycle of Eri, Tasar and Muga- Primary and secondary food plants of Eri, Tasar and Muga silkworms- Geographical distribution - Cocoon production technology – Disinfection – Incubation-Young age silkworm rearing -Late age silkworm rearing– Spinning- Harvesting

#### 14. VALUE ADDED PRODUCTS OF MULBERRY AND SILKWORM

Value-adding Potentials in mulberry: Chemical composition of mulberry leaf and fruit - Nutritional and medicinal values of mulberry –Other uses- value-adding potentials in seed and cocoon production –Nutritional value of Silkworm and silkmoth- Cocoon and silk art craft application - Silkworm as biotechnological and laboratory tool.

#### 15. VALUE ADDED PRODUCTS OF SILK

Types of silk wastes – Spun silk- Noil yarn and its utility - Silkworm pupae as food material and its nutritional value - Pupal oil extraction and its uses-Defective and double cocoons for production of dupion silk- Application of silk protein- Fibroin and sericin as biomaterials- Pharmaceutical- Biomedical application- Cosmetic application

### PAPER-III

### SERICULTURE - II

### ( AGRICULTURE AND BIOSCIENCES )

#### 1. PRINCIPLES OF AGRONOMY

Agriculture in India - Indian economy – National income – Per capita income – Agricultural income in GDP -Different agro climatic Zones of India and Andhra Pradesh - Crops and major soils - Classification – Economic and agricultural importance in India and Andhra Pradesh

#### 2. PRINCIPLES OF SOIL SCIENCE

Soils of Andhra Pradesh - Major soil types- Characteristics and their distribution Problematic soils and their management: Acid and saline soils and methods of reclamation

#### 3. MANURES AND FERTILIZERS

Organic manures and their applications: Farm yard manure-Compost-Vermicompost-Oil cakes, Methods of compost and vermicompost preparations.

Green manuring: Green manure crops and their relevance in soil productivity.

Chemical fertilizers: Classification- Composition - Properties of major Nitrogenous, Phosphatic and potassic fertilizers, Secondary and micronutrient fertilizers, Complex fertilizers, Nano fertilizers.

Foliar nutrition: Foliar nutrient formulations- Mode of applications- Merits and demerits.

Bio fertilizers: Types: Nitrogen- Phosphate -Cellulolytic- Biological nitrogen fixation Importance- Applications and limitations

#### 4. IRRIGATION AND WATER MANAGEMENT

Importance of water - Water resources in India-Water sources- Water quality- Area under irrigation in Andhra Pradesh

Crop water requirements - Water management practices - Methods of irrigation-Suitability -Limitations.

#### 5. WEED MANAGEMENT

Harmful effects of weeds - Herbicides - Advantages and limitations of herbicide usage in India - Selectivity of herbicides - Herbicides and their interaction with fertilizer

Preventive and control methods: Physical-Chemical- Biological weed management techniques, Integrated weed management

#### 6. STRUCTURAL ORGANIZATION OF PLANT CELLS

Ultra structure of plant cell- Structure of cell organelles and function

Tissue systems in plants – Origin- Structure, and function of simple and complex tissues, Cell cycle- Mitosis and Meiosis.

#### 7. PHOTOSYNTHESIS

Structure and function of Chloroplast- Photosynthetic pigments and their characteristics - Photosynthetic carbon assimilation in C<sub>3</sub>, C<sub>4</sub> and CAM Plants- Photorespiration- Mechanism and regulation.

#### 8. RESPIRATION

Glycolysis- Tricarboxylic Acid Cycle (TCA cycle) - Electron transport- Pentose phosphate pathway- Mechanism and Significance

#### 9. PLANT DEVELOPMENT AND GROWTH REGULATORS

Pattern of plant growth and development- Growth kinetics- Morphogenesis- Principles

of differentiation

Natural and Synthetic growth regulators: Auxins- Gibberelins- Cytokinins- Abscisic acid- Ethylene- Brassino steroids- Polyamines- Jasmonic acid -Salicylic acid.

#### **10. PLANT TISSUE CULTURE**

Preparatory techniques–Cleaning- Sterilization - Media –Types and Composition, Callus - Growth pattern/characteristics, Organogenesis and plant regeneration, Acclimatization Somatic embryogenesis-Anther- Endosperm- Pollen cultures - Significance and advantages of haploid plants- Production of virus-free plants.

#### **11. STRUCTURAL ORGANIZATION OF ANIMAL CELLS**

Cell Membrane structure and function - Structural organization and function of intracellular organelles: Cytoplasm - Nucleus - Mitochondria- Endoplasmic reticulum - Golgi apparatus- Ribosomes - Lysosomes - Peroxisomes -Vacuoles - Structure and function of cytoskeleton and its role in motility Cell division and cell cycle

#### **12. ANIMAL PHYSIOLOGY**

Digestion: Functional anatomy of digestive system - Digestion and digestive secretions - Absorption – Assimilation

Respiratory system - Transport of gases- Exchange of gases - Respiratory quotient - Respiratory Pigments - Waste elimination.

Nervous system – Neurons- Action potential - Gross neuroanatomy of the brain and spinal cord- Central and peripheral nervous system- Neural control of muscle tone and posture - Sense organs.

Circulatory System: Physiology of heartbeat- Blood and circulation - Blood corpuscles- Haemopoiesis - Plasma function - Blood volume - Blood groups - Haemoglobin - Immunity - Haemostasis.

Excretory system - Physiology of excretion - Formation of nitrogenous excretory products -Ammonia - Urea - Uric acid - Waste elimination -Regulation of water balance

Endocrinology and reproduction - Endocrine glands and its secretion - Reproductive processes- Gametogenesis- Ovulation- Neuro-endocrine regulation.

#### **13. BIOMOLECULES**

Carbohydrates: Structure- Properties - Classification - Pathways of metabolism of glucose- Glycogenesis- Glycogenolysis- Glycolysis-Citric acid cycle- Gluconeogenesis- HMP pathway-Uronic acid pathway

Proteins: Structure- Classification and properties -Aminoacids- Structure- Classification and properties

Lipids: Structure-Chemical nature-Classification- Biological functions

Nucleic acids: Types - Functions - Structure of DNA and RNA - DNA synthesis RNA synthesis (Transcription) - Protein synthesis (Translation)

#### **14. ENVIRONMENTAL BIOLOGY**

General account on biomes and their environment

Fresh water: Classification and characteristics of freshwater bodies-Eutrophication- Seasonal changes

Marine: Classification and Characteristics- Shores and Estuaries

Terrestrial: Forests- Grasslands- Tundra- Mountains -Caves.

Ecology: Components of an Ecosystem - Tropic levels - Food chain and food web - Energy flow in ecosystem.

## 15. ENVIRONMENTAL POLLUTION

Kinds of pollution- Air pollution: Criteria and standards in India-Health hazards and toxicology-Green house effect-Acid rains-International conventions on ozone-Climate-

Water pollution: Criteria and standards-Waste - Water treatment – Microbial ecology of Activated Sludge-Modern methods of waste water treatment - Solid waste treatment -Noise Pollution-Radiation Pollution - Global environmental change - Ecological effects of pollution-Monitoring pollution - Remote Sensing as a tool for study and management of environment.

### **P.C.No: 03 SCHEME AND SYLLABUS FOR THE POST OF AGRICULTURE OFFICER IN A.P. AGRICULTURE SERVICE**

#### **SCHEME OF EXAMINATION** **(Degree Standard)**

<b>WRITTEN EXAMINATION (Objective Type)</b>			
<b>SUBJECT</b>	<b>No. of Questions</b>	<b>Duration (Minutes)</b>	<b>Maximum Marks</b>
Paper-I: General Studies and Mental Ability	150	150	150
Paper-II: Agriculture	150	150	300
TOTAL			450
<b>NEGATIVE MARKS:</b> As per G.O.Ms. No.235, Finance (HR-I, Plg & Policy) Dept., Dt. 06/12/2016, for each wrong answer will be penalized with 1/3 <sup>rd</sup> of the marks prescribed for the question.			

#### **PAPER-I**

##### **GENERAL STUDIES AND MENTAL ABILITY**

**150 Questions**

**150 Marks**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and its applications to the day to day life Contemporary developments in Science & Technology and information Technology
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
  - a) Tabulation of data
  - b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

#### **PAPER-II: AGRICULTURE**

**150 Questions**

**300 Marks**

1. **Introductory Agriculture and Principles of Agronomy:** Basic elements of crop production; Factors affecting crop production; History of Agricultural Development; Chronological Agricultural Technology development in India. Indian Agriculture, balance sheet, liabilities; Assets and Contrasting trends (DATA), Agril. growth, contrasting food chains, Diversity in physiography, Soil groups, marine, livestock and water; Liabilities: Soil factors, weather factors, Economic ecology, dry and irrigation agriculture, Farming Systems approach,

value addition, requirements in new technology; Women in Agriculture: multifaceted roles and tasks, work stress factors, Nutritional and rural life standards, role in house hold design making, drudgery reduction for farm women, women friendly agricultural technology; Empowerment of women; Group dynamics for farm women, rural women; The nucleus of Agricultural Extension and Training. Meaning and scope of Agronomy: National and International Agricultural Research Institutes in India, Agro-climatic zones of India and Andhra Pradesh. Tillage, crops stand establishment, Planting geometry and its effect on growth and yield cropping systems, Harvesting.

2. **Field Crops (Kharif)** Origin, geographic distribution, economic importance, soil and climatic requirement, varieties, cultural practices and yield of kharif crops, Cereals – rice, maize, sorghum, pearl millet and minor millets; Pulses : pigeonpea, mungbean and urdbean; Oilseeds: groundnut, sesame and soybean; Fibre crops: cotton, jute and sunhemp; and Forage crops: sorghum, maize, cowpea, cluster bean and napier.
3. **Field Crops (Rabi)** Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of rabi crops; Cereals: wheat, barley; Pulses: chickpea, lentil, peas, french bean; Oilseeds: rapeseed and mustard, sunflower, safflower and linseed; Sugar crops: sugarcane and sugarbeet, Medicinal and aromatic crops such as citronella, palma rosa and isabgol; Commercial crops: potato and tobacco, Forage crops: lucerne and oat.
4. **Weed Management Weeds:** Introduction, harmful and beneficial effects, classification, propagation and dissemination; Weed biology and ecology, crop weed association, crop weed competition and allelopathy. Concepts of weed prevention, control and eradication; Methods of weed control: physical, cultural, chemical and biological. Integrated weed management; Herbicides: advantages and limitation of herbicide usage in India, Herbicide classification, formulations, methods of application; Introduction to Adjuvants and their use in herbicides; Selectivity of herbicides; Compatibility of herbicides with other agro chemicals; Weed management in major field and horticultural crops, shift of weed flora in cropping systems, aquatic and problematic weeds and their control. Herbicide resistant crops.
5. **Water Management Including Micro Irrigation** Irrigation: definition and objectives, water resources and irrigation development in India and Gujarat; Soil plant water relationships; Methods of soil moisture estimation, evapotranspiration and crop water requirement; effective rainfall, scheduling of irrigation; Methods of irrigation: surface, sprinkler and drip irrigation; Irrigation efficiency and water use efficiency, conjunctive use of water, irrigation water quality and its management. Water management of different crops (rice, wheat, maize, groundnut, sugarcane, mango, banana and tomato); Agricultural drainage.
6. **Organic Farming** Introduction, concept, relevance in present context; Organic production requirements; Biological intensive nutrient management-organic manures, vermicomposting, green manuring, recycling of organic residues, biofertilizers; Soil improvement and amendments; Integrated diseases and pest management – use of biocontrol agents, biopesticides pheromones, trap crops, bird perches; Weed management; Quality considerations, certification, labeling and accreditation processors, marketing, exports.
7. **Farming Systems and Sustainable Agriculture** Sustainable agriculture: Introduction, definition, goal and current concepts, factors affecting ecological balance and ameliorative measures; Land degradation and conservators of natural resources, LEIA & HEIA; Irrigation problems, waste lands and their development; Organic farming: definition, principles and components; Farming systems: definition, principles and components, IFS models for wetland, irrigated dryland and dryland situations.
8. **Principles of Plant Breeding** Aims and objectives of Plant Breeding; Modes of reproduction, Sexual, Asexual, Apomixis and their classification; Significance in plant breeding; Modes of pollination, genetic consequences, differences between self and cross pollinated crops; Methods of breeding – introduction and acclimatization. Selection, Mass selection Johansson's pure line theory, genetic basis, pure line selection; Hybridization, Aims and objectives, types of hybridization; Methods of handling of segregating generations, pedigree method, bulk method, back cross method and various modified methods; Incompatibility and male sterility and their utilization in crop improvement; Heterosis, inbreeding depression, various theories of Heterosis, exploitation of hybrid vigour development of inbred lines, single cross and double cross hybrids; Population improvement programmes, Hardy-Weinberg Law; recurrent selection, synthetics and composites; Methods of breeding for vegetatively propagated crops; Clonal selection;

Mutation breeding; Ploidy breeding; Wide hybridization, significance in crop improvement. Plant Genetic Resources, their conservation and utilization in crop improvement; ideotype concept in crop improvement; breeding resistance to biotic and abiotic stresses, variability in pathogens and pests; Mechanisms of resistance in plant pathogens and pests; Genetic basis of adaptability to unfavourable environments; definition of biometrics, assessment of variability i.e. additive, dominance and epistasis and their differentiation; genotype x environment interaction and influence on yield/performance, IPR and its related issues.

9. **Principles of Seed Technology** Introduction to Seed Production, Importance of Seed Production, Seed policy, Seed demand forecasting and planning for certified, foundation and breeder seed production, Deterioration of crop varieties, Factors affecting deterioration and their control; Maintenance of genetic purity during seed production, Seed quality; Definition, Characters of good quality seed, Different classes of seed, Production of nucleus & breeder's seed, Maintenance and multiplication of pre-release and newly released varieties in self and cross-pollinated crops; Seed Production, Foundation and certified seed production of various crops. Seed certification, phases of certification, procedure for seed certification, field inspection and field counts etc.; Seed Act and Seed Act enforcement.
10. **Principles of Plant Biotechnology** Concepts of Plant Biotechnology: History of Plant Tissue Culture and Plant Genetic Engineering; Scope and importance in Crop Improvement: Totipotency and Morphogenesis, Nutritional requirements of in-vitro cultures; Techniques of In-vitro cultures, Micro propagation, Anther culture, Pollen culture, Ovule culture, Embryo culture, Test tube fertilization, Endosperm culture, Factors affecting above in-vitro culture; Applications and Achievements; Somaclonal variation, Types, Reasons: Somatic embryogenesis and synthetic seed production technology; Protoplast isolation, Culture, Manipulation and Fusion; Products of somatic hybrids and cybrids, Applications in crop improvement. Genetic engineering; Restriction enzymes; Vectors for gene transfer – Gene cloning – Direct and indirect method of gene transfer – Transgenic plants and their applications. Blotting techniques – DNA finger printing – DNA based markers – RFLP, AFLP, RAPD, SSR and DNA Probes – Mapping QTL – Future prospects. MAS, and its application in crop improvement.
11. **SOIL SCIENCE AND AGRICULTURAL CHEMISTRY:**  
Introduction to Soil Science: Soil: Pedological and edaphological concepts, Origin of the earth, Earth's crust; Composition: Rocks and minerals Weathering, Soil formation factors and processes Components of soils; Soil profile, Soil physical properties, Soil texture, Textural classes, Particle size analysis, Soil structure Classification, Soil aggregates, significance, Soil consistency, Soil crusting, Bulk density and particle density of soils & porosity, their significance and manipulation, Soil compaction, Soil Colour, Elementary knowledge of soil classification and soils of India; Soil water, Retention and potentials, Soil moisture constants, Movement of soil water, Infiltration, percolation, permeability, Drainage, Methods of determination of soil moisture Thermal properties of soils, Soil temperature, Soil air, Gaseous exchange, Influence of soil temperature and air on plant growth; Soil colloids, Properties, nature, types and significance; Layer silicate clays, their genesis and sources of charges, Adsorption of ions, Ion exchange, CEC & AEC Factors influencing ion exchange and its Significance. Soil organic matter, Composition, Decomposability, Humus, Fractionation of organic matter, Carbon cycle, C: N ratio. Soil biology, Biomass, Soil organisms and their beneficial and harmful roles.
12. **Soil Chemistry, Soil Fertility and Nutrient Management** Soil as a source of plant nutrients. Essential and beneficial elements, criteria of essentiality, forms of nutrients in soil , mechanisms of nutrient transport to plants, factors affecting nutrient availability to plants. Measures to overcome deficiencies and toxicities. Problem soils – acid, salt affected and calcareous soils, characteristics, nutrient availabilities. Reclamation – mechanical, chemical and biological methods. Fertilizer and insecticides and their effect on soil water and air. Irrigations water – Quality of irrigation water and its appraisal. Indian standards for water quality. Use of saline water for agriculture. Soil fertility – Different approaches for soil fertility evaluation. Methods, Soil testing – Chemical methods, critical levels of different nutrients in soil. Plant analysis – DRIS methods, critical levels in plants. Rapid tissue tests. Indicator plants. Biological method of soil fertility evaluation. Soil test based fertilizer recommendations to crops. Factors influencing nutrient use efficiency (NUE) in respect of N, P, K, S, Fe and Zn fertilizers. Source, method and scheduling of nutrients for different soils and crops grown under rainfed and irrigated conditions.
13. **Entomology Insect Morphology and Systematics** History of Entomology in India. Factors for insects abundance. Classification of phylum Arthropoda upto classes. Relationship of class Insecta with other classes of Arthropoda. Morphology: Structure and functions of insect cuticle and moulting. Body segmentation. Structure of Head, thorax and abdomen.

Structure and modifications of insect antennae, mouth parts and legs. Wing venation, modifications and wing coupling apparatus. Structure male and female genitalia. Sensory organs. Metamorphosis and diapause in insects. Types of larvae and pupae. Structure and functions of digestive, circulatory, excretory, respiratory, nervous, secretory (Endocrine) and reproductive system in insects. Types of reproduction in insects. Systematics: Taxonomy –importance, history and development and binomial nomenclature. Definitions of Biotype, Sub-species, Species, Genus, Family and Order. Classification of class Insecta upto Orders. Orthoptera, Acrididae. Dictyoptera-Mantidae, Blatidae, Odonata, Isoptera, Termitidae, Thysanoptera, Thripidae, Hemiptera, Pentatomidae, Coreidae, Pyrrhocoridae, Lygaeidae, Cicadellidae, Delphacidae, Aphididae, Coccidae, Aleurodidae, Pseudococcidae, Neuroptera, Chrysopidae Lepidoptera, Noctuidae, Sphingidae, Pyralidae, Gelechiidae, Arctiidae, Coleoptera, Coccinellidae, Chrysomelidae, Cerambycidae, Curculionidae, Bruchidae, Scarabaeidae, Hymenoptera, Tenthredinidae, Apidae, Trichogrammatidae, Ichneumonidae, Braconidae, Diptera, Cecidomyiidae, Trypetidae, Tachinidae, Agromyziidae.

14. **Insect Ecology and Integrated Pest Management Including Beneficial Insects** Insect Ecology: Introduction, Environment and its components. Effect of abiotic factors–temperature, moisture, humidity, rainfall, light, atmospheric pressure and air currents. Effect of biotic factors – food competition, natural and environmental resistance. Concepts of Balance of life in nature, biotic potential and environmental resistance and causes for outbreak of pests in agro-ecosystem. Pest surveillance and pest forecasting. Categories of pests. IPM; Introduction, importance, concepts principles and tools of IPM-Host plant resistance, Cultural, Mechanical, Physical, Legislative, Biological (parasites, predators & transgenic plant pathogens such as bacteria, fungi and viruses ) methods of control. Chemical control – importance, hazards and limitations. Classification of insecticides, toxicity of insecticides and formulations of insecticides. Study of important insecticides. Botanical insecticides – neem based products, Cyclodiens, Organophosphates, Carbamates, Synthetic pyrethroids, Novel insecticides, Pheromones, Nicotinyl insecticides, Chitin synthesis inhibitors, Phenyl pyrazoles, Avermectins, Macrocyclic lactones, Oxadiazimes, Thiourea derivatives, pyridine azomethines, pyrroles, etc. Nematicides, Rodenticides, Acaricides and fumigants. Recent methods of pest control, repellents, antifeedants, hormones, attractants, gamma radiation and genetic control. Practices, scope and limitations of IPM. Insecticides Act 1968 – Important provisions. Application techniques of spray fluids. Phytotoxicity of insecticides. Symptoms of poisoning, first aid and antidotes. Beneficial insects: parasites and predators used in pest control and their mass multiplication techniques. Important groups of microorganisms, bacteria, viruses and fungi used in pest control and their mass multiplication techniques. Important species of pollinators, weed killers and scavengers, their importance.
15. **Pests of Field Crops and Stored Grain and their Management** Stored grain pests: Coleopteran and Lepidopteran pests, their biology and damage, preventive and curative methods. Distribution, biology, nature and symptoms of damage, and management strategies of insect and non insect pests of rice, sorghum, maize, ragi (*Eleusine coracana*), wheat, sugarcane, cotton, sunhemp, pulses, groundnut, castor, gingerly, safflower, sunflower, mustard, cumin, fennel, spinach, amaranthus and tobacco,. Common phytophagous mites, rodents and bird pests.
16. **Principles of Agricultural Economics** Economics: Meaning, Definition, Subject matter, Divisions of Economics, Importance of Economics; Agricultural Economics: Meaning, Definition; Basic Concepts: Goods, Service, Utility, Value, Price, Wealth, Welfare. Wants: Meaning, Characteristics, Classifications of Wants, Importance. Theory of consumption: Law of Diminishing Marginal utility, Meaning, Definition, Assumption, Limitations, Importance. Consumer's surplus: Meaning, Definition, Importance. Demand: Meaning, Definition, Kinds of Demand, Demand schedule, Demand Curve, Law of Demand, Extension and Contraction Vs Increase and Decrease in Demand. Elasticity of Demand: Types of Elasticity of Demand, Degrees of price elasticity of Demand, Methods of Measuring Elasticity, Factors influencing elasticity of Demand, Importance of Elasticity of Demand. Welfare Economics: Meaning. National Income: Concepts, Measurement. Public Resource: Meaning, Services Tax, Meaning, Classification of Taxes: Cannons of Taxation, Inflation: Meaning, Definition, Kinds of inflation.
17. **Agricultural Marketing, Trade and Prices** Agricultural Marketing: Concepts and Definition, Scope and subject matter, Market and Marketing: Meaning, Definitions, Components of a market, Classification. Market structure, Conduct, performance. Marketing structure, Market functionaries or agencies, Producer's surplus: Meaning, Types of producers surplus, marketable surplus. Marketed surplus, importance, Factors affecting Marketable surplus. Marketing channels: Meaning, Definition, Channels for different products. Market



integration, Meaning, Definition, Types of Market Integration. Marketing efficiency: Meaning, Definition, Marketing costs, Margins and price spread, Factors affecting the cost of marketing, Reasons for higher marketing costs of farm commodities, Ways of reducing marketing costs. Theories of International Trade: Domestic Trade, Free trade, GATT, WTO. Cooperative Marketing. State Trading. Ware Housing Corporation; Central and State, Objectives, Functions, Advantages. Food Corporation of India: Objectives and Functions. Quality Control, Agricultural Products, AGMARK. Price Characteristics of agricultural product process, Meaning, Need for Agricultural Price Policy. Risk in Marketing: Meaning and importance, Types of Risk in Marketing. Speculations and Hedging, Futures trading, Contract farming National Agricultural Market – e-NAM.

**P.C.N.o:04 SCHEME AND SYLLABUS FOR THE POST OF DIVISIONAL ACCOUNTS OFFICER (WORKS) GRADE-II IN A.P. WORKS ACCOUNTS SERVICE**

**WRITTEN EXAMINATION (OBJECTIVE TYPE)**

<b>Written Examination (Objective Type)</b>				
<b>PAPER</b>	<b>Subject</b>	<b>No.of Questions</b>	<b>Durations (Minutes)</b>	<b>Maximum Marks</b>
Paper-1	General Studies & Mental Ability (Degree standard)	150	150	150
Paper-2	Arithmetic (SSC standard)	150	150	150
Paper-3	Mensuration (SSC standard)	150	150	150

1. **NEGATIVE MARKS:** As per G.O. Ms. No.235 Finance (HR-I, Plg & Policy) Dept., Dt.06/12/2016, for each wrong answer will be penalized with 1/3<sup>rd</sup> of the marks prescribed for the question.

**SYLLABUS FOR WRITTEN EXAMINATION (OBJECTIVE TYPE)**

**Paper - 1**

**GENERAL STUDIES& MENTAL ABILITY (DEGREE STANDARD)**

**150 Questions**

**150 Marks**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and it applications to the day to day life Contemporary developments in Science & Technology and information Technology
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
  - a) Tabulation of data
  - b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation

12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

**Paper - 2**  
**ARITHMETIC**  
**(Upto S.S.C. STANDARD)**

**150 Questions**

**150 Marks**

1. Number systems – Rational and irrational numbers-decimal representations-real numbers-modulus of a real number – inequalities involving modulus- Prime and composite numbers – least common multiple and greatest common divisor-surds and logarithms.
2. Ratio and proportion-Averages-percentages-profit and loss-Discounts-Simple and compound interests-Partnerships-Time and distance – Time and work-clocks and calendar.
3. Polynomials - special products – factorization - Remainder theorem - Quadratic equations - Algebraic expressions - Binomial theorem for positive integral index.
4. Sets-fundamental operations on sets-Relations and functions-Types of functions- Matrices (utmost of type 3X3) – Matrix addition and multiplication – system of linear Equations in two variables.
5. Statistics – Frequency table - Mean, Median and mode.

**Paper - 3**  
**MENSURATION**  
**(Upto S.S.C Standard)**

**150 Questions**

**150 Marks**

1. Areas of squares, rectangles, triangles quadrilaterals, parallelogram and trapezium.
2. Geometry of triangles and polygons-identical triangles similarity of triangles- Pythagoras theorem and applications.
3. Surface area and volumes of solids such as Sphere, Cylinder, Cone and Prism.
4. Geometry of Circles-Common tangents to two Circles and their properties-Chords and sectors of circle.
5. Coordinates in two-dimension plane-Distance formula-area of a triangle-Equation of a straight line in different forms-Applications -Trigonometric ratios and their values for special angles-simple trigonometric identities

**P.C.No.05 SCHEME AND SYLLABUS FOR THE POST OF TECHNICAL ASSISTANT IN A.P. POLICE (TRANSPORT ORGANIZATION) SERVICE**

**SCHEME OF THE EXAMINATION**

<b>WRITTEN EXAMINATION (OBJECTIVE TYPE) Degree Standard</b>				
PAPER	SUBJECT	No. Of Questions	Duration Minutes	Maximum Marks
Paper – I	General Studies & Mental Ability	150	150	150
Paper - II	Automobile Engineering	150	150	300
Total				450
NEGATIVE MARKS: As per G.O.Ms. No.235, Finance (HR-I, Plg & Policy) Dept., Dt. 06/12/2016, for each wrong answer will be penalized with 1/3 <sup>rd</sup> of the marks prescribed for the question.				

**Syllabus**

**Paper – I GENERAL STUDIES AND MENTAL ABILITY**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and it applications to the day to day life Contemporary developments in Science & Technology and information Technology.

4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
  - a) Tabulation of data
  - b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

### **Paper – II**

### **AUTOMOBILE ENGINEERING**

01. Thermodynamics: systems – Zeroth Law of thermodynamics – First law of thermodynamics – Second Law of thermodynamics – Entropy – Statistical thermodynamics – Air Compressors I.C. Engines cycles and Process – Combustion in I.C. Engines – Engine performance – Scavenging and supercharging of Engines – Modern development in I.C. Engines – I.C. Engine plant layout.
02. Heat Transfer: Conduction Convection – Thermal Radiation – Heat Exchangers.
03. Fluid Mechanics and Machinery: Fluid properties – Dimensional analysis – Fluid static's – Flow past immersed bodies – Centrifugal pumps – Axial flow pumps – Rotary pumps – Reciprocating pumps – Oil Hydraulic systems.
04. Instrumentation: Transducers – Flow measuring transducers – Temperature measurement – Strain gauges – Mechanical measuring devices – Slip gauges – Plug gauge – Micrometers in bars optical flat etc.
05. Automobile chasis & Systems: Chasis layout – Shock absorbers in dependent suspension – torsion bars – gear suspension – wheel balancing – tyres and tubes – constructional details of the engine – Ignition system – Fuel system – Lubrication system – Cooling system – Transmission system – Brakes steering mechanism – Electrical circuits and equipment's – Engine troubles – Air conditioning system – Modern trends in automobiles & Engines.
06. Material Science: Crystallography of metals – Binary alloys – Constitution and equilibrium diagram – methods of studying metal structure – Heat treatment – of steels – Casehardening and surface treatment of steels – Non Ferrous metals and alloys – Creep – Fatigue.
07. Kinematics of Machines: Kinematics – Velocity and Acceleration – Properties of instantaneous centre – Gears – Gears trains – Oams – Governors – Brakes and dynamometers – Clutches – Power transmission – Chain drives.
08. Dynamics of Machines: Static force Analysis – Dynamic Force Analysis – Dynamics of Reciprocating Engines – Balancing – Vibration Analysis of Single degree freedom systems – Torsional Vibrations – Vibration isolation.
09. Design of Automobile Machine Parts: Design of welded joints Design of bolts & nuts – Shafts and Axles – Curved beams – Springs – Bearings – clutches – Brakes – Design of connecting rod – Crank shaft fly wheel.
10. Production Technology: Machine tools – Lathes – Shaper, planner and slotting machines – Drilling and boring machine – Milling – Lapping – Tool room – Electro machining – Welding – Brazing – Foundry.
11. Industrial Engineering: Industrial management – personnel function – Production facilities – Production Planning and control – Wages and incentives – Cost Control – Marketing and Sales Promotion.

**P.C.N.o: 06 SCHEME AND SYLLABUS FOR THE POST OF ASSISTANT COMMISSIONER OF ENDOWMENTS IN A.P. CHARITABLE AND HINDU RELIGIOUS INSTITUTIONS AND ENDOWMENT SERVICE**

<b>WRITTEN EXAMINATION (OBJECTIVE TYPE) DEGREE STANDRADED</b>				
<b>PAPER</b>	<b>SUBJECT</b>	<b>No.of Questions</b>	<b>Duration</b>	<b>Maximum Marks</b>
Paper - I	GENERAL STUDIES AND MENTAL ABILITY	150 Questions	150 Minutes	150 Marks
Paper - II	<b><u>SUBJECT (LAW)</u></b> Paper – 1. Hindu Law	150 Questions	150 Minutes	150 Marks
	Paper– 2. Hindu Religious Endowments Act	150 Questions	150 Minutes	150 Marks
<b>TOTAL</b>				<b>450</b>

**N.B:** As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) Dept, Dt:06/12/2016, for each wrong answer will be penalized with 1/3<sup>rd</sup> of the marks prescribed for the question.

**SYLLABUS**

**PAPER-I GENERAL STUDIES AND MENTAL ABILITY**

**Questions: 150**

**Marks: 150**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and it applications to the day to day life Contemporary developments in Science & Technology and information Technology
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
  - a) Tabulation of data
  - b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

**PAPER –II - SUBJECT: LAW**

**Paper-I (Hindu Law)**

**Questions: 150**

**Marks: 150**

**1. ANCIENT HINDU LAW**

a) SOURCES OF HINDU LAW: Ancient sources - Sruti, Smritis, Maimansakars, Digests and Commentaries, Custom - Modern Sources - Equity, Justice and Good Conscience, Precedent - Legislation.

b) SCHOOL OF HINDU LAW: The Mitakshara and the Dayabhaga Schools . Migration and change of Religion.

c) JOINT HINDU FAMILY: The Mitakshara Joint Family, the Dayabhaga Joint Family - Joint Hindu Family property - Co-parenary - Alienations - Son's pious obligation to pay Father's debts - Partition - Women's property - Sthreedhana Enumeration of Women's property - Hindu women's right to property Act, Section-14, Hindu Succession Act, 1955.

**2. MODERN HINDU LAW**

THE HINDU MARRIAGE ACT, 1955: Requisites of Valid Marriage - Ceremonies - Judicial Separation - Restitutions of Conjugal Rights - Divorce - Grounds for judicial separation and divorce - Family Courts - Concept of Family Courts - Jurisdiction of Family Courts - Camera Proceedings and exclusion of Lawyer.

**3. DOWRY**

Definition of Dowry, Dowry off-enders - Trail of dowry offences - Dowry prohibition officers.

**4. THE HINDU SUCCESSION ACT, 1955**

Succession to property of Hindu Male dying intestate - Classification of Heirs - Abolition of Limits Ownership of Hindu Females - Section 14 - Changes made by 1985 A.P . Amendment to Act.

**5. THE HINDU MINORITY AND GUARDIAN SHIP ACT 1956**

Classification of Guardians - Rights and Duties of Guardians.

**6. THE HINDU ADOPTION AND MAINTENANCE ACT 1956**

Capacity to Adopt and to be adopted and Rights of Adopted - Effect of Adoption - Relationship of the Adopted child . Maintenance as a Personal Obligation - Maintenance of dependents - Maintenance of Members of Joint family - Quantum of maintenance - Arrears of Maintenance, Maintenance as Charge Alteration of Maintenance.

**7. Endowments in Ancient Hindu Law – and its status**

**PAPER- II - SUBJECT LAW**

**PAPER-2: HINDU RELIGIOUS ENDOWMENTS ACT:**

**Questions: 150**

**Marks: 150**

Act, 30/87 which consists of 15 chapters with 162 sections including a separate chapter on Tirumala Tirupati Devasthanams.

**P.C.No:07 SCHEME AND SYLLABUS FOR THE POST OF ASSISTANT DIRECTOR OF HORTICULTURE IN AP HORTICULTURE SERVICE**

**SCHEME OF THE EXAMINATION**

WRITTEN EXAMINATION (OBJECTIVE TYPE) Degree Standard				
Paper	Subject	No. Of Questions	Duration Minutes	Maximum Marks
Paper - I	General Studies & Mental Ability	150	150	150
Paper - II	Horticulture - I	150	150	150
Paper - III	Horticulture – II	150	150	150
Total				450
<b>N.B:</b> As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) Dept, Dt: 06/12/2016, for each wrong answer will be penalized with 1/3 <sup>rd</sup> of the marks prescribed for the question in all Objective type papers.				

**SYLLABUS**

**PAPER-I: GENERAL STUDIES AND MENTAL ABILITY**

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and its applications to the day to day life Contemporary developments in Science & Technology and information Technology.
4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
6. Economic development in India since independence with emphasis on Andhra Pradesh.
7. Physical geography of Indian sub-continent and Andhra Pradesh.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
  - a) Tabulation of data
  - b) Visual representation of data
  - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

**PAPER-II HORTICULTURE-I**

**1. FRUIT CROPS**

Area, production, importance, uses, origin, distribution, botany, classification of varieties, use of rootstocks, high density planting, climate, soils, planting methods, training and pruning, nutrition, bahar treatment, irrigation scheduling, intercrops, weed control, problems in orchard management, flowering, fruit set, seedlessness irregular bearing, problems in fruit set, harvesting indices, harvesting, preharvest treatments, use of growth regulators, yield, grading, packing for internal and export markets, ripening methods and storage in respect of mango, banana, citrus, grape, pineapple, guava, papaya and sapota. Physiological disorders in fruit crops.

**2. VEGETABLE CROPS**

Importance of vegetables in human diet and national economy. Detailed study regarding origin and distribution, area and production, importance, nutritive value, botany, varieties, soil and climatic requirements, seed treatment, seed sowing/nursery raising, transplanting, nutrition, irrigation, intercultural operations, physiological

disorders, harvest indices, harvesting, post harvest handling, curing, storage and usage of plant growth regulators in vegetable crops like tomato, brinjal, chillies, sweet pepper, potato, okra, cucurbitaceous crops like cucumber, pumpkin, ridge gourd, snake gourd, bitter gourd, bottle gourd, melons like water melon and muskmelon, leguminous vegetables like cluster bean, French bean, dolichos bean, pea and broad bean, cole crops like cabbage, cauliflower and knolkhol, root crops like radish, carrot, beetroot and turnip, bulb crops like onion and garlic, tuber crops like sweet potato, tapioca, amorphophallus, colacasia, dioscorea and yam, leafy vegetables like amaranthus, palak, Roselle, perennial vegetables like drumstick, coccinia and murraya.

### **3. COMMERCIAL FLORICULTURE, ORNAMENTAL GARDENING AND LANDSCAPE**

#### **ARCHITECTURE**

Area, production, importance, uses, origin, distribution, classification of varieties, propagation, environmental factors affecting growth and flowering, soils, nutrition, irrigation, weeding, special techniques of production such as controlling growth and production of flowers, use of growth regulators, harvesting, postharvest handling, extension of shelf life of flowers of commercial flower crops such as rose, chrysanthemum, jasmine, carnations, gladiolus, anthurium, tuberose, china aster, marigold, crossandra and gerbera.

Need for bioaesthetic planning, places suitable for bioaesthetic planning-towns, cities, villages, schools, temples, road side, parks, ghats of rivers and canals, platforms, railway lines, public and private buildings, institutes and places of worship. Ornamental trees, shrubs climbers, cacti, succulents used in bioaesthetic or landscape gardening. Principles of garden designs, types of gardens-japanese, English and Moghul gardens. Various features of gardens such as paths, garden walls, fencing, steps, edges, hedges, arches, pergolas, shrubbery, topiary, rockery, flower beds, lawns, fountains, statues, water garden, conservatory and glass or greenhouse. Indoor plants, and their management.

Flower arrangement – principles, styles, containers and holding solutions.

Bonsai – culture and art of making.

### **4. MEDICINAL, AROMATIC, SPICES, CONDIMENT AND PLANTATION CROPS**

Origin, importance, export potential, varieties, climate, soil requirements, propagation and planting and after care, mulching, irrigation, training, pruning, harvesting, yield and post harvest handling, curing and processing practices, storage methods, and distillation of essential oils of the following crops.

#### **Medicinal Plants**

Aloe, amla(aonla), stevia, ashwagandha, dioscorea, opium poppy, sarpagandha, steroids bearing solanum, *Phyllanthus amarus*, chakramani, madhunasaeni, sweet flag, *Catharanthus roseus*, isabgol, fox glove, belladonna, senna, tinospora, annatto, coleus, safed musli and asparagus.

#### **Aromatic Crops**

Citronella, lemon grass, palmarosa, vetiver, geranium, davana, mints, lavender and vanilla.

#### **Spices and condiments**

Turmeric, ginger, coriander, fenugreek, cardamom, pepper, cinnamon, clove, nutmeg and cumin.

#### **Plantation Crops**

Coconut, cashewnut, oil palm, betelvine, coffee, tea, cacao, arecanut and rubber.

## **5. DRYLAND HORTICULTURE AND WATERSHED MANAGEMENT**

Dryland horticulture farming, introduction, definition, dry climate and their classifications with reference to India in general and Andhra Pradesh in particular. Importance of horticultural crops in dryland, yield potential of agriculture and horticultural crops in drylands. Fruits and vegetables crops suitable for dryland farming. Adaptive features of dryland fruit crops for drought and salinity.

Watershed management, objectives, approaches, steps in watershed development planning, land use capability, classification, soil and rain water conservation, water harvesting measures in watershed area. Problems and prospects under water shed. Alternate water use system.

Cultural practices like planting, training, pruning, nutrition and water management and harvesting of important dry land fruits viz., ber, pomegranate, custard apple, phalsa, fig, aonla, jamun and tamarind.

## **6. Post Harvest Management of Horticultural Crops**

Importance of post harvest technology in Horticultural crops. Maturity indices, harvesting, handling, grading of fruits, vegetables, cut flowers, plantation crops, medicinal and aromatic plants. Pre-harvest factors affecting quality, factors responsible for deterioration of horticultural produce, physiological and biochemical changes, hardening and delaying ripening process. Post harvest treatments of horticultural crops. Quality parameters and specifications. Structure of fruits, vegetables and cut flowers related to physiological changes after harvest. Methods of storage for local market and export, packaging methods and types of packages, recent advances in packaging. Types of containers and cushioning materials, vacuum packaging, cold storage, poly shrink packaging, grape guard packing treatments. Modes of transport.

## **7. PRESERVATION OF FRUITS AND VEGETABLES**

Importance and scope of fruit and vegetable preservation in India. Principles of preservation by heat, low temperature, chemicals and various methods of preservation. Selection of site for processing, processing unit layout and precautions for hygienic conditions of the unit. Preservation of fruits and vegetables through canning, bottling, freezing, dehydration, drying, sugar, chemicals, salts, vinegar, ultraviolet and ionizing radiations.

Micro-organisms associated with spoilage of fruit and vegetable products. Spoilage of canned products-hydrogen swell, flipper, dent, leaker etc., Biochemical changes associated with spoilage of fruit and vegetable products. Preservatives and colours permitted and prohibited in India.

## **8. FARM POWER AND MACHINERY;**

Farm power in A.P and India – Sources, I.C engines, classification, Tractors – Types and uses, selection of tractor and cost of tractor power. Electric motors – types,

Tillage implements – primary secondary tillage drawn implements. Seed cum fertilizer drills, planters. Grafting and pruning tools and equipment. Implements, tools and equipment for intercultural operations. Plants protection equipment – harvesting equipment – soil conservation equipment.



Different kinds of equipments used in processing. Preparation of jams, jellies, marmalades, candies, crystallized and glazed fruits, preserves, chutneys, pickles, ketchup, sauce, puree, syrups, juices, squashes and cordials.

Government policy on import and export of processed fruits, food laws. Quality control of processed products.

## **9. GREENHOUSE MANAGEMENT OF HORTICULTURAL CROPS**

Importance, uses, scope and production of horticultural crops in greenhouse. Status and development of greenhouse production of horticultural crops in the world and India. Development, constraints, research needs and future of protected culture of horticultural crops in India and A.P. Points to be considered before establishing a greenhouse. Types of greenhouses, classification of greenhouses based on the shapes, material used, utility and cladding material used. Size and arrangement of greenhouses and characteristics of various greenhouse cladding materials, greenhouse benches etc.,

Management of light, temperature (greenhouse heating and cooling), CO<sub>2</sub> and relative humidity inside the greenhouse.

Various types of growing media used and their suitability for different horticultural crops. Preparation of growing media and its pasteurization. Management of nutrients through fertigation.

Detailed production technology in respect of tomato, cucumber, rose, carnation, gerbera, chrysanthemum and anthurium under greenhouse/polyhouse.

### **PAPER-III HORTICULTURE-II**

#### **1. FUNDAMENTALS OF HORTICULTURE :**

Definition, importance of horticulture in terms of economy, production, and employment generation. Nutritional value of horticultural crops. Divisions of horticulture and their importance. Horticultural stations in Andhra Pradesh. Horticultural zones of India and Andhra Pradesh.

Temperature, light, humidity, rainfall and soil requirements for horticultural crops. Selection of site for establishing an orchard, orchard plan, systems of planting and establishment of an orchard. Importance, scope and practicing of organic farming in horticultural crop production. Soil and climate for horticultural crops. Vegetable gardens – nutrition and kitchen gardens and other types of gardens.

Nutrition of horticultural crops – assessment of nutritional requirements based on soil, tissue analysis, and field experiments. Identification of deficiency symptoms of various nutrients and methods of nutrient application. Assessment of irrigation requirements for different horticultural crops and different methods of irrigation. Pruning and training, their objectives and methods. Pollination and fruit set, problems and requirements, flower and fruit drop, stages, causes and remedial measures. Fruit thinning, objectives, advantages and disadvantages. Unfruitfulness, reasons and remedial measures. Use of growth regulators in horticulture. Cropping systems, intercropping, multi-tier cropping, mulching, bearing habits, factors influencing the

fruitfulness and unfruitfulness. Rejuvenation of old orchards, top working, frame working.

## **2. PLANT PROPAGATION AND NURSERY MANAGEMENT :**

Introduction, principles and classification of plant propagation methods. Selection of site for commercial nursery. Ecological and economic factors. Plant propagation structures, containers and media.

Sexual propagation and its importance. Seed dormancy, Seed germination, process of seed germination. Factors affecting seed germination and pre-germination treatments and viability tests.

Asexual (vegetative) propagation and its importance. Various methods of Asexual (vegetative) propagation like cuttage, layerage, budding, grafting and factors responsible for their success. Different types among cuttage, layerage, budding, grafting methods followed in propagation of different horticultural crops. Role of root stocks, selection and maintenance of mother trees (scion bank), scion – stock relationships, bud wood certification, propagation through specialized structures. Nursery registration act.

Importance of micro propagation of plants. Types of aseptic cultures. Types of media, preparation of media and inoculation of explants, establishment, sub culture and rooting of explants.

## **3. PLANT PHYSIOLOGY :**

Physiological changes during seed development, germination and seed dormancy. Seed viability and seed vigour. Photosynthesis – importance, factors affecting photosynthesis. Light and dark reactions – C3, C4 and CAM pathways. Significance and differences. Photo-respiration and its significance. Respiration and its significance.

Nomenclature and classification of plant growth substances. History, occurrence, distribution, mode of action, movement, mechanism and function of auxins, gibberellins, cytokinins, ethylene, inhibitors, retardants, phenolic substances and morphactins.

Role of plant growth regulators in plant propagation, seed and bud dormancy, juvenility, maturity and senescence, flowering, pollination, fruitset including parthenocarpy, fruit growth, fruit drop and fruit ripening (climacteric and non-climacteric) and fruit colour development, tuber and bulb formation and sex expression and extension of shelf life in fruits, vegetables and flowers.

## **4. ENTOMOLOGY :**

Commonly occurring pests in horticultural crops – distribution, host range, nature of damage, symptoms and control measures. Life cycle of insect pests, nematodes etc., Integrated pest management.

## **5. PATHOLOGY :**

Commonly occurring diseases in horticultural crops – host range, etiology, symptoms and control measures. Life cycle of bacteria, fungal parasites, viruses etc., Integrated disease management.

**6. SOIL SCIENCE:**

Soil texture – classes. Soil structure – classification. Soil PH, importance of soil PH on nutrient availability. Soil organic matter – sources, humus formation, C:N ratio and its importance.

Soil fertility and productivity. Essential and beneficial elements, criteria of essentiality. Primary secondary, micronutrients and their functions, deficiency symptoms, occurrence in horticultural crops, corrective measures. Factors affecting their availability.

Classification of manures and fertilizers and their differences. Commercial fertilizers, simple, compound and complex fertilizers, fertilizers mixtures. Biofertilizers. Integrated nutrient management for horticultural crops. Fertilizer control order.

**7. INTRODUCTORY AGROFORESTRY :**

Agro forestry-introduction, status of Indian forests, role in Indian Farming Systems. Definition-Branches of Forestry. Principles and practices, classification of Agro forestry systems-inter cropping-Home garden-Types of coconut based cropping system-planning for Agro forestry-constraints, diagnosis and design methodology, selection of tree species for agro forestry. Agro forestry projects-national, overseas, MPTs – their management practices economics of cultivation – Sisso, Acacia catechu, A.nilotica (Babul),Bez(Z. mauritiana). Grewia, Subabul, Tamarind, Eucalyptus, Teak, Casuarina, Red sander, Neem, Soapnut, Aonla, Morus, Bamboo, bio diesel trees-Jatropha, Pongamia, Simarouba. Distinction between agro forestry and social forestry-objectives, scope of social forestry. Hortipastoral system – pastures suitable under dry land condition.

**8. EXTENSION EDUCATION:**

Formal and informal education. Teaching – learning process, principles of learning. Commutation – components. Classification of Audio – visual aids.

Transfer of technology programmers – KVK, TAR - IVLP, ATIC, NHM, APMIP, DWCR, ANTWA, DAATC. Extension reforms – ATMA, SREP, PRA, different tools of PRA.

**9. ORGANIC FARMING IN HORTICULTURAL CROPS :**

Introduction, concept, relevance in present context, Organic production requirements, Biological intensive nutrient management-Organic manures, vermicomposting, green manuring, compost pits, recycling of organic residues, bio-fertilizers, soil improvement and amendments: Integrated diseases and pest management use of biocontrol agents, biopesticides, pheromones, trap crops bird perches, weed management. Quality considerations, certification, labelling and accreditation processors, marketing, exports. International and National Policies in promotion of Organic farming.

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**Annexure-III**

**INSTRUCTIONS TO CANDIDATES**

**A. INSTRUCTIONS TO CANDIDATES:**

- A.1. The applicants are required to go through the user guide and satisfy themselves as to their eligibility for this recruitment carefully before applying and enter the particulars completely online.
- A.2. Applicant must compulsorily fill-up all relevant columns of application and submit application through website only. The particulars made available in the website will be processed through computer and the eligibility decided in terms of notification and confirmed accordingly.
- A.3. The applications received online in the prescribed proforma available in the website and within the time shall only be considered and the Commission will not be held responsible for any kind of delay/discrepancy on part of the candidate.
- A.4. Applicants must compulsorily upload his/her own scanned photo and signature through .jpg format.
- A.5. The applicants should not furnish any particulars that are false, tampered, fabricated or suppress any material information while making an application through website.
- A.6. Important:-Hand written/typed/Photostat copies/printed application form will not be entertained.
- A.7. The applicant shall produce all the essential certificates issued by the competent authority, for verification by the commission, as and when called for. If candidates fail to produce the same, his/her candidature shall be rejected / disqualified without any further correspondence.
- A.8. The following certificate formats are available on the Commission's Website (<https://psc.ap.gov.in>) for reference.
- A.8.1. Community, Nativity and Date of Birth Certificate
  - A.8.2. Declaration by the Un-Employed
  - A.8.3. School Study Certificate
  - A.8.4. Certificate of Residence
  - A.8.5. Medical Certificate for the Blind
  - A.8.6. Certificate of Hearing Disability and Hearing Assessment
  - A.8.7. Medical Certificate in respect of Orthopedically Handicapped Candidates
  - A.8.8. Creamy Layer Certificate
  - A.8.9. Local status certificate (if applicable)

**B. INSTRUCTIONS REGARDING ON-LINE EXAMINATION FOR CANDIDATES:**

- B.1. The candidates should take their seats at the prescribed time before the commencement of the examination. Biometric identification would be conducted before entry into examination hall. The entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime. Loaning and interchanging of articles among the candidates is not permitted in the examination hall. Electronic devices including cell phones and pagers are not allowed in the examination hall.
- B.2. The starting time of each examination paper and the entry time would be mentioned in the hall ticket
- B.3. Candidates will not be permitted to leave the examination hall till the expiry of full time. If any candidate leaves the examination hall in the middle, he would be

disqualified. If there is any problem with computer system, the candidates have to wait without talking to others till the system is restored. In case of any violation, the candidate will be disqualified.

- B.4. The examination link with the login screen will already be available on your system. Please inform the invigilator if this is not the case.
- B.5. 10 minutes prior to the exam, you'll be prompted to login. Please type the Login ID (Roll No) and the Password (Password for Candidate will be given on exam day) to proceed further.
- B.6. Invigilator will announce the password 15 minutes before commencement of the Examination.
- B.7. Copying or noting down questions and/or options is not allowed. Severe action will be taken if any candidate is found noting down the questions and/or options.
- B.8. After logging in, your screen will display:
  - \*Profile Information - Check the details & click on "I Confirm" or "I Deny".
  - \*Detailed exam instructions - Please read and understand thoroughly.
  - \*Please click on the "I am ready to Begin" button, after reading the instructions.
- B.9. You have to use the mouse to answer the multiple choice type questions with FOUR alternative answers.
- B.10. To answer any numerical answer type question, you need to use the virtual numeric key pad and the mouse.
- B.11. On the online exam question screen, the timer will display the balance time remaining for the completion of exam.
- B.12. The question numbers are color coordinated and of different shapes based on the process of recording your response: White (Square) - For un-attempted questions. Red (Inverted Pentagon) - For unanswered questions. Green (Pentagon) - For attempted questions. Violet (Circle) - Question marked by candidate for review, to be answered later. Violet (Circle with a Tick mark) - Question answered and marked by candidate for review.
- B.13. After answering a question, click the SAVE & NEXT button to save your response and move onto the next question.
- B.14. Click on Mark for Review & NEXT to mark your question for review, and then go to the next question.
- B.15. To clear any answer chosen for a particular question, please click on the CLEAR RESPONSE button.
- B.16. A summary of each section, (i.e. questions answered, not answered, marked for review) is available for each section. You have to place the cursor over the section name for this summary.
- B.17. In case you wish to view a larger font size, please inform the Invigilator. On the Invigilator's confirmation, click on the font size you wish to select. The font size will be visible on the top.
- B.18. You may view INSTRUCTIONS at any point of time during exam, by clicking on the INSTRUCTIONS button on your screen.
- B.19. The SUBMIT button will be activated after 150 Minutes. Please keep checking the timer on your screen.
- B.20. In case of automatic or manual log out, all your attempted responses will be saved. Also, the exam will start from the time where it had stopped.
- B.21. You will be provided a blank sheet for rough work. Do write your Login ID and Password on it. Please ensure that you return it to the invigilator at the end of the exam after tearing only the password from it.
- B.22. Please don't touch the key board as your exam ID will get locked. If your ID gets locked, please inform a nearby invigilator who will help in unlocking your ID and then you can continue with the exam.

- B.23. Please inform the invigilator in case of any technical issues.
- B.24. Please do not talk to or disturb other candidates.
- B.25. In case you are carrying articles other than the admit card, photo identity proof and pen, please leave them outside the exam room.
- B.26. You cannot leave exam room before submitting the paper. Please inform the invigilator if you want to use the wash room.

**C. GENERAL INSTRUCTIONS TO CANDIDATES:**

- C.1. If the candidate notices any discrepancy printed on the Hall ticket, as to community, date of birth etc., he/she may immediately bring it to the notice of Commission's officials/Chief Superintendent in the examination centre and necessary corrections can be made in the Nominal Roll, in the Examination Hall against his/her Hall Ticket Number for being verified by the Commission's Office.
- C.2. The candidate should satisfy the Invigilator of his/her identity with reference to the signature and photographs available on the Nominal Rolls and Hall Ticket.
- C.3. The candidates should take their seats at the given time before the commencement of the examination and are not to be allowed after the scheduled time. The time of Examination and entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime.
- C.4. The candidates must note that his/her admission to the examination is strictly provisional. The mere fact that an Admission to the examination does not imply that his/her candidature has been finally cleared by the Commission or that the entries made by the candidate in his/her application have been accepted by the Commission as true and correct. The candidates have to be found suitable after verification of original certificates; and other eligibility criteria. The Applicants have to upload his/her scanned recent colour passport photo and signature to the Application Form. Failure to produce the same photograph, if required, at the time of interview/ verification, may lead to disqualification. Hence the candidates are advised not to change their appearance till the recruitment process is complete.
- C.5. The candidates are not allowed to bring any Electronic devices such as mobile / cell phones, programmable calculators, tablets, iPad, Bluetooth, pagers, watches or any other computing devices to examination Hall. Loaning and interchanging of articles among the candidates is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall.
- C.6. The candidates are expected to behave in orderly and disciplined manner while writing the examination. Their candidature will be rejected in case of impersonation/ disorder/ rowdy behaviour during Examination and necessary F.I.R. for this incident will be lodged with concerned Police Station. The Chief Superintendent of the centre is authorized to take spot decision in this matter.
- C.7. Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- C.8. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked if malpractice and unfair means are noticed at any stage of the Examination. Action will be taken to penalize as per G.O.Ms.No.385, G.A. (Ser. A) Dept., Dt.18/10/2016.
- C.9. (a) Wherever the candidates are totally blind, they will be provided a scribe to write the examination and 20 minutes extra time is permitted to them per hour. Eligible candidates are also allowed to bring their own scribe after due intimation to the Commission after duly providing the full identification details of the scribe like name, address and appropriate proof of identification.

(b) The applicants shall upload the certificate relating to percentage of disability for considering the appointment of scribe in the examination.

(c) An extra time of 20 minutes per hour is also permitted for the candidates with locomotor disability and CEREBRAL PALSY where dominant (writing) extremity is affected for the extent slowing the performance of function (Minimum of 40% impairment). No scribe is allowed to such candidates.

(d) The candidate as well as the scribe will have to give a suitable undertaking conforming to the rules applicable

- C.10. In case the Hall-Ticket is without photo or too small, he/she should affix a passport size photo on Hall-ticket and appear by duly getting attested by Gazetted Officer. He/she shall handover similar photo for each paper to Chief Superintendent for affixing the same on the Nominal Rolls.
- C.11. The candidate will not be admitted to the examination Hall without procedural formalities.
- C.12. The candidate admission to the Examination is provisional, subject to the eligibility, confirmation/satisfaction of conditions laid down in this notification.
- C.13. The candidates should put his/ her signature and get the signature of the invigilator at the appropriate places in the Nominal Roll or OMR Answer Sheet.
- C.14. Instructions to be followed scrupulously in the Examination Hall.

**ANNEXURE – IV****LIST OF SCHEDULED CASTES****(Definition 28 of General Rule - 2)****SCHEDULE – I**

(Substituted with effect from 27-07-1977 through G.O.Ms.No. 838, G.A. (Services-D) Department, dated 15/12/1977)

- 1 Adi Andhra
- 2 Adi Dravida
- 3 Anamuk
- 4 Aray Mala
- 5 Arundhatiya
- 6 Arwa Mala
- 7 Bariki
- 8 Bavuri
- 9 Beda Jangam, Budga Jangam (In Districts of Hyderabad,Rangareddy, Mahaboobnagar, Adilabad, Nizamabad,Medak,Karimnagar,Warangal, Khammam and Nalgonda)\*
- 10 Bindla
- 11 Byagara, Byagari\*
- 12 Chachati
- 13 Chalavadi
- 14 Chamar, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas\*
- 15 Chambhar
- 16 Chandala
- 17 Dakkal, Dokkalwar
- 18 Dandasi
- 19 Dhor
- 20 Dom, Dombara, Paidi, Pano
- 21 Ellamalwar, Yellammalawandlu
- 22 Ghasi, Haddi, Relli, Chachandi
- 23 Godagali, Godagula (in the Districts of Srikakulam, Vizianagaram & Vishakapatnam) \*
- 24 Godari
- 25 Gosangi
- 26 Holey
- 27 Holey Dasari
- 28 Jaggali
- 29 Jambuwulu
- 30 Kolupulvandlu, Pambada, Pambanda, Pambala \*
- 31 Madasi Kuruva, Madari Kuruva
- 32 Madiga
- 33 Madiga Dasu, Mashteen
- 34 Mahar
- 35 Mala, Mala Ayawaru \*
- 36 Mala Dasari
- 37 Mala Dasu
- 38 Mala Hannai
- 39 Mala Jangam
- 40 Mala Masti
- 41 Mala Sale, Netkani
- 42 Mala Sanyasi
- 43 Mang
- 44 Mang Garodi
- 45 Manne
- 46 Mashti
- 47 Matangi
- 48 Mahter
- 49 Mitha Ayyalvar
- 50 Mundala
- 51 Paky, Moti, Thoti
- 52 (Omitted)\*
- 53 Pamidi
- 54 Panchama, Pariah



- 55 Relli  
 56 Samagara  
 57 Samban  
 58 Sapru  
 59 Sindhollu, Chindollu  
 60 Yatala (Srikakulam Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008  
 61 Valluvan \* (Chittoor and Nellore Dist. Only) Memo No. 8183/CV-1/2006- 10 SW (CV-I) Dept., Dt. 31/03/2008  
 \* As for the Constitution (Scheduled Caste) orders (Second Amendment) Act 2002, Act No. 61 of 2002

**LIST OF SCHEDULED TRIBES**

1. Andh, Sadhu Andh \*
  2. Bagata
  3. Bhil
  4. Chanchu (Chenchwar omitted) \*
  5. Gadabas, Boda Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba \*
  6. Gond, Naikpod, Rajgond, Koitur \*
  7. Goudu (in the Agency tracts)
  8. Hill Reddis
  9. Jatapus
  10. Kammara
  11. Kattunayakan
  12. Kolam, Kolawar \*
  13. Konda Dhoras, Kubi \*
  14. Konda Kapus
  15. Konda Reddis
  16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Konds, Tikiria Khondhs, Yeniy Khondhs, Kuvinga \*
  17. Kotia, Benth Oriya, Bartika, Dulia, Holva, Sanrona, Sidhopaiko (Dhulia, Paiko, Putiya-omitted \*)
  18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (Ordinary), Kottu Koya, Bhine Koya, Raj Koya (Goud-omitted \*)
  19. Kulia
  20. Malis (excluding Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal District)
  21. Manna Dhora
  22. Nayaks (in the Agency tracts)
  23. Mukha Dhora, Nooka Dhora
  24. Pardhan
  25. Porja, Parangi Perja
  26. Reddi Dhoras
  27. Rona, Rena
  28. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
  29. Sugalis, Lambadis, Banjara \*
  30. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal Districts)
  31. Valmiki (in the Scheduled Areas of Vishakapatnam, Srikakulam, Vizianagaram, East Godavari and West Godavari Districts \*)
  32. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi \*
  33. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula \*
  34. Nakkala Kurivikaran (Nakkala – A.P. Gazette, Part – III (B) Central Acts ordinance and Regulations Issue No. 05 Dt. 02/10/2003 )
  35. Dhulia, Paiko, Putiya (in the districts of Vishakapatnam, Vizianagaram \*)
- \* As for the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act 2002, Act No. 10 of 2003

**LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES**

(Amended from time to time as on 31/08/2007)

**GROUP- A**

Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi Nomadic Tribes etc.,

1. Agnikulakshatriya, Palli, Vadabaliya, Besta, jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, Pallikapu, Pallireddy Neyyala and Pattapu) \*Mudiraj / Mutrasi / Tenugollu, The G.O. Ms.No. 15 BCW(C2) Dept., dt. 19/02/2009 is suspended. Hence the inclusion of Mudiraj / Mutrasi / Tenugollu is suspended)vide Hon'ble A.P. High Court orders in WP No. 2122/2009 dated: 29-04-2009.
2. Balasanthu, Bahurupi
3. Bandara
4. Budabukkala
5. Rajaka (Chakali Vannar)
6. Dasari (formerly engaged in bikshatana)  
(amended vide G.O.Rt.No. 32, BCW(M1) Department, dt: 23/02/1995)
7. Dommara
8. Gangiredlavaru
9. Jangam (whose traditional occupation is begging)
10. Jogi
11. Katipapala
12. Korcha
13. Lambada or Banjara in Telangana Area  
(deleted and included in S.T. list vide G.O.Ms.No. 149, SW, dated:3/5/1978)
14. Medari or Mahendra
15. Mondivaru, Mondibanda, Banda
16. Nayee Brahmin (Mangali), Mangala and Bajantri  
(amended vide G.O.Ms.No. 1, BCW(M1) Department, dated 6/1/1996)
17. Nakkala (Deleted vide G.O. Ms. No. 21, BCW(C2) Dept., Dt. 20/06/2011)
18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/1995 deleting the Original name Pitchiguntla)
19. Pamula
20. Pardhi (Mirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu (Dammali, Dammala, Dammula, Damala Castes confined to Srikakulam dist. Vide G.O.Ms. No.: 9 BCW(C2) Dept., Dt. 9/04/2008)
23. Veeramushti (Nettikotala), Veera bhadreya (Amended vide G.O. Ms. No. 62, BCW (M1) Dept., Dt. 10/12/1996)
24. Valmiki boya (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya) Talayari and Chunduvallu  
(G.O.Ms. No. 124, SW, Dt. 24.06.85) Yellapi and Yellapu are one and the same amended vide G.O. Ms. No. 61, BCW(M1) Dept., Dt. 05.12.1996)
25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
26. Gudala
27. Kanjara - Bhatta
28. Kalinga (Kinthala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
29. Kepmare or Reddika
30. Mondipatta
31. Nokkar
32. Pariki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Joshinandiwalas
37. Odde (Oddilu, Vaddi, Vaddelu)
38. Mandula (Govt. Memo No. 40-VI/70-1, Edn., Dt. 10.02.1972)
39. Mehator (Muslim) (Govt. Memo No. 234 -VI/72-2, Edn., Dt. 05.07.1972).
40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, Dt. 03.08.1975)
41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., Dt. 28.08.2006)
42. kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide

- in G.O.MS.No. 26 BC W (C2) Dept., Dt. 4/07/08
43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., Dt. 4/07/08
  44. Samanthula, Samantha, sountia, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., Dt. 4/07/08
  45. pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali of Chittoor, Cuddapah, Kurnool, Anantapur, Nellore, Hyderabad and Rangareddy Districts only. Included Vide G.O. MS. No. 23 B.C. W (C2) Dept., Dt. 4/07/08
  46. Rajannala, Rajannalu of Karimnagar, Warangal, Nizamabad and Adilabad Districts only. (included in vide G.O.Ms. No. 44 B.C.W(C2) Dept., Dt.07/08/2008).
  47. Bukka Ayyavars, Included vide G.O.Ms.No. 6 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
  48. Gotrala, Included vide G.O.Ms.No. 7 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
  49. Kasikapadi / Kasikapudi, Included vide G.O.Ms.No. 8 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts of Telangana Region only.
  50. Siddula, Included vide G.O.Ms.No. 9 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
  51. Sikligar / Saikalgar, Included vide G.O.Ms.No. 10 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
  52. Poosala included vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
  53. Aasadula / Asadula, included vide G.O. Ms. No. 13, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to East Godavari and West Godavari Districts only.
  54. Keuta/Kevuto/Keviti, included vide G.O. Ms. No. 15, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam District only.

#### **Group-B (Vocational)**

1. Achukatlavandlu in the Districts of Visakhapatnam and Guntur confined to Hindus only as amended vide G.O. Ms. No. 8, BCW(C2) Dept., Dt. 29.03.2000
2. Aryakshatriya, Chittari, Giniyar, Chitrakara, Nakshas (Muchi Telugu Speaking deleted vide G.O. Ms. No. 31, BCW (M1) Dept., 11.06.1996)
3. Devanga
4. Goud (Ediga) Gouda (Gamella) Kalalee, Goundla, Settibalija of Vishakhapatnam, East Godavari, West Godavari and Krishna Districts and Srisayana (Segidi) – (amended vide G.O. Ms. No. 16, BCW (A1) Dept., dt. 19.06.1997
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devatilakula (Amended vide G.O. Ms. No. 13, BCW(A1) Dept., dt. 20.05.1997)
7. Jandra
8. Kummara or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabalija, Puragirikshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((**sagidi**)- deleted and added to Sl.No. 4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshtriya
21. Viswabrahmin, Viswakarma (Ausula or Kamsali, Kammari, Kanchari Vadla or Vadra or Vadrangi and Silpis)(Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
22. Kunchiti, Vakkaliga, Vakkaligara, Kunchitiga of Anantapur Dist. Only vide G.O. Ms.No. 10 BCW(C-2) Dept., Dt. 9-04-2008
23. Lodh, Lodhi, Lodha of Hyderabad, Rangareddy, Khammam and Adilabad Districts only. Included in Vide G.O.MS.No. 22 BC W (C2) Dept., Dt. 4/07/08
24. Bondili (included in vide G.O.Ms. No. 42, B.C.W(C2) Dept., Dt.07/08/2008)
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakavallu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
26. Neeli (included in vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008).

27. Budubunjala/Bhunjwa/Bhadbhunja, included vide G.O.Ms. No. 11, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Hyderabad and Ranga Reddy District only.
28. Gudia/Gudiya, included vide G.O.Ms. No. 14, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam, Vizianagaram and Vishakhapatnam, district only.

**GROUP – C**

**Scheduled Castes converts to Christianity and their progeny**

**(Substituted in G.O.Ms.No.159, G.A.(Ser.D) Dept., dt. 02/04/1981)**

**GROUP – D (Other Classes)**

1. Agarua
2. Are-Katika, Katika, Are-Suryavamsi(Are-Suryavamsi added vide G.O. Ms. No. 39, B.C. W(C2) Dept., Dt. 7/08/08)
3. Atagara
4. Bhatraju
5. Chippolu (Mera)
6. Gavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Kosthi
13. Kachi
14. Surya Baliya, (Kalavanthulu) Ganika (amended vide G.O.Ms. No. 20, BCW(P2) Dept., Dt. 19.07.1994)
15. Krishanabalija (Dasari, Bukka)
16. Koppulavelama
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli of all Districts of Telangana Region added as synonyms vide G.O. Ms. No. 3, BCW(C2) Dept., Dt. 09.01.2004 and G.O. Ms. No. 45, B.C.W(C2) Dept., Dt.07/08/2008)
19. Mudiraj / Mutrasi / Tenugollu.
20. Munnurukapu (Telangana)
21. Nagavamsam (Nagavamsa) vide G.O.Ms.No. 53, BC Welfare Dept., dated:19/09/1996
22. Nelli(deleted vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)
23. Polinativelmas of Srikakulam and Visakhapatnam districts
24. deleted vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009
25. Passi
26. Rangrez or Bhavasarakshtriya
27. Sadhuchetty
28. Satani (Chattadasrivaishnava)
29. Tammali (Non-Brahmins) (Shudra Caste) whose traditional occupation is playing musical instruments, vending of flowers and giving assistance in temple service but not Shivarchakars. Included vide G.O. Ms. No. 7, Backward Classes Welfare (C2) Dept., Dt. 19/02/2011).
30. Turupukapus or Gajula kapus {... the words "of Srikakulam, Vizianagaram and Vishakhapatnam Districts" were deleted vide G.O.Ms.No. 62, Backward Classes Welfare (C2) Dept., dt. 20/12/2008 and G.O. Ms.No. 19 Backward Classes Welfare (C2) Dept., dt. 19/02/2009} who are subject to Social customs or divorce and remarriage among their women (G.O. Ms. No. 65, E&SW, dt. 18.02.1994)
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
34. Are, Arevallu and Arollu of Telangana District (Included vide G.O.Ms.No. 11, Backward Classes Welfare (C-2) Department, dt. 13/5/2003 and G.O.Ms. No. 41, B.C.W(C2) Dept., Dt.07/08/2008)
35. Sadara, Sadaru of Anantapur Dist. Only vide G.O.Ms.No. 11 BCW (C-2) Dept., Dt. 9- 04-2008
36. Arava of Srikakulam District only. Included in vide G.O. MS. No. 24 BC W (C2) Dept., Dt. 4/07/08
37. Ayyaraka, of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, Khammam and Warangal Districts only. Included in vide

G.O. MS. No. 25 BC W (C2) Dept., Dt. 4/07/08

38. Nagaralu of Srikakulam, Vizianagaram, Visakhapatnam, Krishna, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 27 BC W (C2) Dept., Dt. 4/07/08
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar including Thuluva Vellalas of Chittoor, Nellore, Kurnool, Anantapur, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 20 BC W (C2) Dept., Dt. 4/07/08
40. Beri Vysya, Beri Chetty of Chittoor, Nellore and Krishna Districts only. Included in vide G.O. MS. No. 21 BC W (C2) Dept., Dt. 4/07/08
41. Atirasa included vide G.O. Ms.No. 5 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to East Godavari and West Godavari Districts only.
42. Sondi / Sundi included vide G.O. Ms.No. 11 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
43. Varala included vide G.O. Ms.No. 12 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
44. Sistakaranam included vide G.O. Ms.No. 13 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
45. Lakkamari Kapu included vide G.O. Ms.No. 14 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
46. Veerashaiva Lingayat/Lingabaliya, included vide G.O. Ms.No. 22 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.
47. Kurmi, included vide G.O.Ms. No. 12, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Telangana Region and also Krishna District only.
48. Kalinga Komati / Kalinga Vysya vide G.O. Ms. No.10 Backward classes Welfare(c) Department Dated.24.9.2014. The area of operation shall be confined to Srikakulam, Vizianagaram and Visakhapatnam districts only.

#### **GROUP – E**

##### **(Socially and Educationally Backward Classes of Muslims)**

1. Achchukattalavandlu, Singali, Singamvallu, Achchupanivallu, Achchukattuvaru, Achukatlavandlu.
  2. Attar Saibuli, Attarollu
  3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalass, Muslim Rajakas.
  4. Faqir, Fhakhir Budbudki, Ghanti, Fhakhir, Ghanta Fhakhiru, Turaka Budbudki, Derves, Fakeer
  5. Garadi Muslim, Garadi Saibulu, Pamulavallu, Kani-Kattuvallu, Garadollu, Garadiga.
  6. Gosangi Muslim, Phakeer Sayebulu
  7. Guddi Eluguvallu, Elugu Bantuvallu, Musalman Keelu Gurravallu
  8. Hajam, Nai, Nai Muslim, Navid
  9. Labbi, Labbai, Labbon, Labba
  10. Pakeerla, Borewale, Deraphakirlu, Bonthala
  11. Kureshi/ Khureshi, Khasab, Marati Khasab, Muslim Katika, Khatik Muslim
  12. Shaik/ Sheikh
  13. Siddi, Yaba, Habshi, Jasi
  14. Turaka Kasha, Kakkukotte Zinka Saibulu, chakkitakanevale, Terugadu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuraka Kasha
  15. Other Muslim groups excluding Syed, Saiyed, Sayyad, Mushaik; Mughal, Moghal; Pathans; Irani; Arab; Bohra, Bohra; Shia Imami Ismaili, Khoja; Cutchi-Memon; Jamayat; Navayat; and all the synonyms and sub-groups of the excluded groups; and except those who have been already included in the State List of Backward Classes.
- N.B.:
1. The above list is for information and subject to confirmation with reference to G.O. Ms. No. 58, SW(J) Department, dated 12/05/1997 and time to time orders.
  2. On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant rules and regulations in force the decision of the Commission shall be final in all such cases.

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