Question Booklet No.:

		A	OE	/18
Register		- 15		
Number				

2018

AGRICULTURE (Degree Standard)

Time Allowed: 3 Hours]

[Maximum Marks: 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination. 1.
- This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested 2. to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination it will not be replaced.

Answer all questions. All questions carry equal marks. 3.

You must write your Register Number in the space provided on the top right side of this page. Do not 4. write anything else on the Question Booklet.

An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers. 5.

You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.

Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct 7. response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the

Answer Sheet. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the 8. questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, B is the correct answer, you have to mark as follows:

(A) (C) (D)

- You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of 9. examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- The sheet before the last page of the Question Booklet can be used for Rough Work. 10.

Do not tick-mark or mark the answers in the Question Booklet. 11.

- Applicants have to write and shade the total number of answer fields left blank on the boxes provided 12. at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- Failure to comply with any of the above instructions will render you liable to such action or penalty as 13. the Commission may decide at their discretion.

Test Prime

ALL EXAMS, ONE SUBSCRIPTION



70,000+ Mock Tests



600+ Exam Covered



Personalised Report Card



Previous Year Papers



Unlimited Re-Attempt



500% Refund















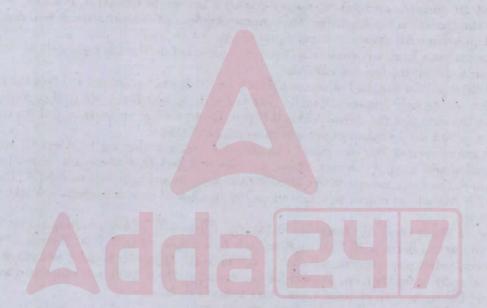


ATTEMPT FREE MOCK NOW





30001289



1.	The	lowest	area	under	irrigation	in	Tamil	Nadu	is
----	-----	--------	------	-------	------------	----	-------	------	----

(A) Tirunelveli Dt.

(B) Nilgris Dt.

(C) Tanjore Dt.

(D) Cuddalore Dt.

2. 'Autumn Planting' sugarcane is planted during

- September to November
- (B) June to August

(C) December to March

(D) December to January

3. Groundnut is intercropped with

- (A) Rice
- (C) Coconut

- Pigeon pea
 - (D) Eucalyptus

4. The foliar spray recommended for Rice fallow pulse in Tamil Nadu is

- (A) DAP 5%
- (C) DAP 10%

- (B) DAP 2%
 - (D) Urea 5%

- (A) Rice
- (C) Bengal gram

- Sugarcane
 - (D) Black gram

- (A) Complete disc ploughing
- (C) Complete disc harrowing

Row zone tillage

(D) Complete cultivator ploughing

7. The Intergovernmental panel on climate change (IPCC) help its 43rd session in April 2016 at

(A) India

(P) Kenya

(C) France

(D) Srilanka

(A) > 80%

(8) 60%

(C) > 90%

(D) > 70%

- 9. NCMRWF refers to
 - National Centre for Medium Range Weather Forecast
 - (B) National Centre for Meteorological Region in Weather Forecast
 - (C) New Centre for Micro Research in Weather Forecasting
 - (D) New Delhi Central Medium Range Weather Forecast
- 10. Medium Range Weather Forecast is given by
 - (A) RMC (Regional Meteorological Centre)
 - NCMRWF (National Centre for Medium Range Weather Forecast)
 - (C) MC (Meteorological Centre)
 - (D) AIR (All India Radio)
- 11. Priming is a post harvesting process carried out in
 - (A) Coconut

(D) Tobacco

(C) Blackgram

- (D) Rice
- 12. The economical part of sunflower is
 - Capitula

(B) Leaf

(C) Stem

- (D) Root
- 13. The water requirement of rice crop is
 - (A) 700 m.m
 - 700 m.m 1200 m.m (D) 500 m.m
- 14. The 'Poor man's friend' crop is
 - (A) Rice

(B) Cumbu

100

(C)

Potato

- (D) Tapioca
- 15. Sugar content in brix of sweet sorghum juice varies from
 - 16-23%

(B) 32 - 40%

(C) 8-10%

(D) 8-12%

	*****			11	0	1		3.0
16.	The	mean	particle	diameter	OI	sand	particles	18



2.0 - 0.05 mm

(B) < 0.02 mm

- - < 0.002 mm

0.05 - 0.002 mm(D)

Agricultural grade gypsum contains 17.



70% purity

30% purity

- 90% purity (B)
- 35% purity (D)

A unit of CSWCR & TI (Central Soil and Water Conservation Research and Training 18. Institute) in Tamil Nadu is located at



(C)

Ooty

Palani

- Kodaikanal (B)
- (D) Yercaud

Alfisols are otherwise called as 19.



Black soils

(C)

Clayey soils

- Red soils
 - Clay loam soils

AI refers to 20.



Arid Inlands

Actual Index (C)

Aridity Index

Actual Initial Moisture

Ephemerals are those plants that can 21.

(A)

resist the drought

(C)

tolerate the drought

- (B) evade the drought
 - (D) cannot tolerate the drought

The soil type of drylands in India is dominated by 22.

- (A)
- Sandy soil

Clayey soil (B)



Alluvial soils

Black soils (D)



40.	CITE	iti (Ochidal Aliu Zone Research Instit	ute) is i	ocated at
	(A)	Raipur	(B)	Jaipur
	(C)	Hyderabad	95	Jodhpur
94	W			
24.		er content in the plant body on fresh v	veight b	
	(A)	10%	(B)	20%
	(C)	30%		90%
25.	The	mass (weight) per unit volume of a dr	y soil in	cluding pore space is called
	(A)	particle density	(B)	soil density
	(C)	soil porosity	VOY	bulk density
26.	A cor	mmon phenomenon in areas with good	l canal i	rrigation but noor drainage
	W	Salinisation / Alkalisation	(B)	Calcification
	(C)	Laterisation	(D)	Cheluviation
			(2)	Cheraviation
27.	The locat	headquarters of CSWCRI (Central So	oil and	Water Conservation Research Institute) is
	(A)	Jodhpur	(B)	Dehradhun
	(C)	Jaipur	(D)	New Delhi
28.	Whic	h one of the following is not a dimens	ion of ac	oial aban 2
20.	(A)	Structural change	(B)	Cultural change
	(C)	Interactional change	(B)	Functional change
	(0)	Third detablian change		r unctional change
29.	ICRI	SAT refers to		
	W	International Crop Research Institu	te for Se	emi Arid Tropics
	(B)	Indian Crop Research Institute for S		
	(C)	Institutional Central Research Initia	ative for	Semi Arid Tropics
	(D)	Indian Central Research Institute fo		
30.	The s	soil order which have high content of c	love the	at awall when matted
	(A)	Alfisols	(B)	Ultisols
	100	Vertisols	(D)	Mollisols



31.	The l	piogas produced from animal dung a	nd crop re	esidues is
	(A)	oxygen	(B)	methane
	(C)	nitrogen	(D)	sulphur
32.	The	noncontact type of thermometer is		
	(A)	Bimetallic strip thermometer	(B)	Mercury thermometer
	(C)	Thermocouple thermometer		Infra red thermometers
33.	Total	l soil water potential is		
	SAS	Σ of gravitational, osmotic, capilla		
	(B)	Σ of gravitational, osmotic and cap		tential
	(C)	Σ of gravitational and osmotic pot	ential	
	(D)	Equal to gravitational potential		
34.		and BGA		
	(A)	Bio Green Azolla	(3)	Blue Green Algae
	(C)	Bio Generated Azolla	(D)	Biological Graded Azospirillum
35.	One	of the following is a micronutrient re		
	(A)	Nitrogen (N)	VBT	Manganese (Mn)
	(C)	Phosphorous (P)	(D)	Potassium (K)
36.	VAN	I refers to		
	(A)	Very Attractive Microorganism		Vesicular Arbuscular Mycorrhizae
	(C)	Virtual Azolla Microbes	(D)	Visual Azolla Medium
37.	Lac		d as man	
	(A)	Phosphorous	(B)	Potash
	(C)	Ammonium sulphide		Nitrogen
38.	Mod	ern bee keeping is possible after the	discovery	
	(A)	L. Langstroth	(D)	Newton
	(C)	Karl Von Frisch	(D)	Bee man

39.



	(A)	Air-filled porosity	(B)	Redox potential
	(C)	Diffusion coefficient of gases .	DI	Oxygen diffusion rate
		ntermediate textured rock is A) Granite (B) Diorit (C) Ryolite (D) Felsit n agriculture wind energy is mainly used for (E) Water pumping (B) Harve (C) Fertilizer application (D) Sowin A good example of trap crop for cotton to attract jassids at A) Bajra (C) Maize (D) Tomat Chis type of evaluation is carried out by the agency mplementation of the programme (E) Self evaluation (E) Internal evaluation (D) None (E) Conduction (D) Convertible (E) Mulch Che best agronomic practices to improve the water use eff (A) Minimum tillage (B) Mulch		
40.	Inter	mediate textured rock is		
	(A)	Granite	(B)	Diorite
	(9)	Ryolite	(D)	Felsite
	*			
41.	In ag	riculture wind energy is mainly used f	or	
	W	Water pumping	(B)	Harvesting
	(C)	Fertilizer application	(D)	Sowing / planting
42.	A goo	d example of trap crop for cotton to at	tract j	assids and cotton bollworm is
	(A)			Lady's finger
	(C)	Maize		Tomato
43.	This	type of evaluation is carried out by	v the	agency responsible for the planning and
				P
	(A)	Self evaluation	(B)	External evaluation
	JOY	Internal evaluation	(D)	None of the above
44.	The p	rocess by which neutron moisture met	ter wo	rks is
	W	Thermalisation	(B)	Evaporation
	(C)	Conduction	(D)	Convection
45.	The b	est agronomic practices to improve the	e wate	r use efficiency is
	(A)			Mulching
	(C)	Planting geometry	(0)	All of these

The best method for characterization of aeration status of the soil is



46.

Which one of the following is incorrect?



	(A)	Qualitative characters are discrete		
	(B)	Quantitative characters are polyger	nic	
	S	Quantitative characters are not affe	ected by	environment
	(D)	Qualitative characters are oligogen	ic	
47.	Whea	at varieties NP4 and NP6 are develop	ed throu	ugh
	(A)	Mass selection	(B)	Heterosis breeding
	400	Pureline selection	(D)	Pedigree breeding
48.	Whic	h method of breeding is followed to t	ransfer o	of disease resistance to a ruling variety?
	(A)	Mass selection	(B)	Mass - pedigree
	(C)	Single seed descent	Dy	Back cross
49.		osition in a chromosome that commination of a quantitative trait	ntains o	one or more polygenes involved in the
	(A)	Polygeneric trait locus	(B)	Oligogenic trait locus
	S	Quantitative trait locus	(D)	Qualitative trait locus
50.		uction of hybrid plants through the	fusion of	protoplasts of two different plant species /
	(A)	Distant hybridization	(B)	Somatic hybridization
	(C)	In vitro pollination	(D)	Wide hybridization
51.	Deve	elopment of embryo either from Syne	rgids or	antipodal cell is referred to as
	(A)	Apospory	(B)	Adventive Embryony
	401	Apogamy	(D)	Diplospory



52.	flowe	——————————————————————————————————————	ame p	lants where male organs in hermaphrodite
	(A)	Self incompatibility	(B)	Male Sterily
	(C)	Cleistogamy	(D)	Chasmogamy
53.	The	dwarfing gene in rice is		
	W	Dee Gee Woo Gen	(B)	Norin 10
	(C)	Milo	(D)	Tift
54.	In —	a large number of plants of si d together to constitute the new variety	milar	phenotype are selected and their seeds are
	(A)	Pureline Selection	00	Mass Selection
	(C)	Pedigree Selection	(D)	Bulk Method
55.	The s	superiority of F1 over its parents is know	vn as	
	(A)	Composite	B	Heterosis
	(C)	Cybrids	(D)	Inbreeding depression
56.	The p	orimary centre of origin of Hordeum Vu	lgare	(Barley) is
	4	Abyssynian centre	(B)	Asia Minor centre
	(C)	Mediterranean centre	(D)	Central Asia centre
57.	Integ	rated Rural Development Programme	(IRD	P) was extended to all the blocks of the
	(A)	15th August, 1980	(B)	2 nd October, 1980
	(C)	2 nd October, 1979	(D)	15th August, 1979



		Victoria 14	02	-	170
58.	Polyethylene	Glycol	18	used	in

(A) Hydro priming

(B) Halo priming

400

Osmotic priming

- (D) Matrix priming
- 59. Number of plants to be counted per count during field inspection in 'Wide-Spaced row crops' seed field

100

(B) 500

(C) 1000

- (D) 1500
- 60. Which one of the following is a direct vigour test for seeds?
 - (A) Speed of germination
 - (B) Tetrazolium test

Accelerated ageing test

- (D) Seedling length measurements
- 61. TZ test is used to estimate
 - (A) Seed moisture

(B) Seed purity

Seed viability

- (D) Genetic purity
- 62. Hard seeds are commonly found in families of
 - (A) Amaranthaceae

Leguminosae

(C) Alliaceae

- (D) Solanaceae
- 63. As per the ISTA Rules, the Final count for Maize Seed germination test has to be taken on
 - (A) 4th day

7th day

(C) 10th day

(D) 14th day

64.	What:	is the	name (of the	iournal	published	by	ISTA?
-----	-------	--------	--------	--------	---------	-----------	----	-------

(A) Seed Research

(B) Seed Tech News



Seed Science and Technology

(D) Journal of Seed Technology

65. The ISTA standard for minimum number of seeds for germination test are

(A) 50

(B) 100

(C) 200

400

66. "Vrikshabhaksha" is

- (A) a book written by Surapal
- (B) Experimental Plant Pathology



Phanerogamic parasite

- (D) Seewee of Botany
- 67. To prepare 1 per cent Bordeaux Mixture, quantity of copper sulphate, lime and water required are
 - (A) 1000 g + 1000 g + 1000 ml
- 500 mg + 500 mg + 50 ml
- (C) 500 gm + 500 gm + 100 lit
- (D) 1000 g + 1000 g + 100 ml

68. Banana Bunchy top virus can be detected by

(A) Iodine test

Tetrazolium test

(C) Ooze test

(D) Koch's Postulates

69. The technique shoot tip culture is employed to get

- (A) Cross protected plants
- Virus free plants
- (C) Pre immunized seedlings
- (D) Bacterial resistant plants

70.	Dire	ctorate of plant protection, quarantine	and s	torage is located in
	(A)	Agra	(B)	Chennai
	VOS	Faridabad	(D)	Mumbai
71.	Bring	jal lacewing bug is ——— pest.		
	4	Monophagous	(B)	Oligophagous
	(C)	Polyphagous	(D)	Cosmopoliton
70	TT			
. 72.		of higher seed rate and early saving are in sorghum.	e the	cultural methods used to manage —
	(A)	Calocoris angustatus		
	9	Athenigona seccala		
	(C)	Chilo partellus		
	(D)	Ophiomyia phaseoli		
73.	Detra	shing in sugarcane is used to manage -		pest.
	(A)	Early shoot borer	B	Internode borer
	(C)	Top shoot borer	(D)	Root grub
74.	Which	one is the non-host plant for rhinocero	ous be	eetle?
	(A)	Coconut	(B)	Sugarcane
	(C)	Pineapple-	900	Acacia

13





								Google
75:	In Ri light	ce, a night temperature of 20°C alternated and 10 hrs of darkness is most favoura	ating w	vith day te r infection	emperature by	of 30°C	with 14	hrs of
	(A)	Rice Tungro Bacilliform Virus	*					
	(B)	Bipolaris oryzae						
	C	Magnaporthe oryzae						
	(D)	Xanthomonas oryzae pr. oryzae						

- 76. Identify the break even point in terms of rupees if the fixed cost is Rs. 8,000/ha of a crop, price/quintal is Rs.950 and variable cost/quintal is Rs. 485.
 - (A) Rs. 15,326.5

(B) Rs. 16,324.5

Rs. 16,326.5

(D) Rs. 15,320.5

77. In the year 1969, how many commercial banks were nationalised?

(A) 15

B) 14

(C) 18

(D) 16

78. Who is the sponsor bank for Pallavan grama bank and where is the headquarters?

A Indian Bank, Salem

- (B) Indian Bank, Cuddalore
- (C) SBI, Salem

(D) IOB, Salem



79. The shape of isoquant for perfect substitutes is

(A) parallel to x axis

linear line

- (C) parallel to y axis
- (D) convex to origin



80. Match the following:

- (a) Tractor loan
- 1. Marketing loan
- (b) Motor cycle loan
- 2. Production loan
- (c) Key loan
- 3. Consumption loan
- (d) Warehouse receipt loan 4.
- Hypothecation loan

(a)

3

- (b)
- (c) (d)

- (A)
- 4
- 2 1
- (B) 2
-
 - 4

3

- (0) 2
- 1 3
- 4
- (D) 2
- 4
- 1

3

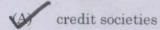
1

- 81. Which statements are correct with respect to rational stage of classical production function
 - 1. MPP < APP
 - 2. MPP = 0 when stage ends
 - 3. $E_p = 1$ when stage starts
 - 4. TPP negative
 - (A) 1, 2, 3, 4
 - 1, 2, 3 only
 - (C) 2, 3 only
 - (D) 2, 3, 4 only
 - 2. The decision rule drawn from the principle of Marginalism is
 - (A) MC > MR
 - MC = MR
 - (C) MC < MR
 - (D) MC ≥ MR





83. The first type of co-operative societies established in India are



- (B) farming societies
- (C) marketing societies
- (D) housing societies

84. The following is not an affiliate body of World Bank

(A) IMF

(B) IFC

(C) IDA



85. LAMPS were established in India based on the recommendations of

- (A) Narasimham
- Bava committee
- (C) Nicholson
- (D) Mohan Kanda

86. Which statements are correct with respect to random factor in Time series analysis?

- 1. includes all omitted factors
- 2. tastes and preferences are not included
- 3. selling costs are included
- 4. advertisement cost enhances random factor
- (A) 1 only
- (B) 1 and 2 only
- (e) 1, 3, 4 only
- (D) 2 and 4 only





Kinked demand and price rigidity are seen in this market structure 87.



Oligopoly

- Perfect

- (B) Monopoly
- Duopoly (D)

Expansion of firms by consolidating additional marketing functions and activities under a 88. single management is



Market integration

Price spread (C)

- Marketing efficiency (B)
- Technical efficiency (D)

Match the following:

- Production risk (a)
- Due to fluctuation in price 1.
- Marketing risk (b)
- 2. Increase with increase in credit
- Price risk (c)
- 3. Based on rainfall distribution
- Financial risk (d)
- 4. Based on fluctuation in supply

- (a)
- (b)

4

4

1

1

- (c) (d)
- (A) 1
- 3
- (B)

2 1

- 4
- 2

2

- (D)
- 3

90. Match the following:

- Secular market (a)
- Demand over entire country 1.
- Terminal market (b)
- 2. Cattle market
- Local market (c)
- 3. Manufactured goods

17

- National market (d)
- Processing and Storage are dominant 4.

- (a) 3
- (b) 4

3

1

(c)

1

- 3 (B)
- 2
- 2 (C)
- 2

(d)

1

4

- (D) 3
- 4 4
- 1 2

91. Match the commodity boards with their headquarters:

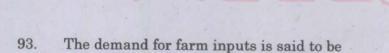
Board

- (a) Coconut development Board
- (b) Tobacco board
- (c) Rubber board
- (d) Coffee board

	(a)	(b)	(c)	(d)
w	4	3	2	1
(B)	4	2	3	1
(C)	2	1	3	4
(D)	4	1	3	2

- Head quarters
- 1. Bangalore
- 2. Kottayam
- 3. Guntur
- 4. Kochi

- 92. Who is responsible to announce minimum support price and when it is announced?
 - (A) State Government, after sowing
 - (B) CACP, after sowing
 - Government of India, before sowing
 - (D) Government of India, after sowing

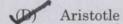


- derived demand
 - (B) reservation demand
 - (C) effective demand
 - (D) ineffective demand





- 94. Source Transmitter Signal Receiver Destination is the model of communication proposed by
 - (A) Berlo
 - (B) Laswell
 - (C) Shannon and Weaver



- 95. Sponsoring agency of 'Village Knowledge Centre' is
 - M.S. Swaminathan Research Foundation, Chennai
 - (B) MANAGE, Hyderabad
 - (C) NAARM, Hyderabad
 - (D) National Information Centre
- 96. A blog is a fusion of two words
 - (A) Web and Google
 - Web and Log
 - (C) WAN and LAN
 - (D) Glob and Log
- 97. Sponsoring agency of 'Cyber Extension Project' is
 - (A) NAARM, Hyderabad
 - MANAGE, Hyderabad
 - (C) ICAR, New Delhi
 - (D) GBPUA & T, Pantnagar





98.	Production of wheat	during 2016 - 17	is estimated at a	record level of



98.38 million tonnes

- (B) 43.33 million tonnes
- (C) 143.33 million tonnes

- (D) 208.38 million tonnes
- 99. When compared to the total oil seeds production in the year 2015-16, the total oil seeds production in the country in 2016 17 is higher by



6.85 million tonnes

(B) 3.85 million tonnes

(C) 9.85 million tonnes

(D) 12.85 million tonnes

100. Thaladi season is



October/November - January/February

- (B) June/July September/October
- (C) August/September December/January
- (D) January/ February March/April
- 101. Kuruvai season is



June/July to September/October

- (B) October/November to January/February
- (C) August/September to December/January
- (D) January/ February to March/April
- 102. ICRISAT was established at Patancheru near Hyderabad in the year
 - (A) 1982



(C) 1986

(D) 1962





103.	Repe	tative growing of same sole crop in th	e same	land is called as
	(A)	Mixed cropping	(B)	Poly culture
	(C)	Inter cropping		Mono culture
104.		eak rainfall season of Tamil Nadu is	(D)	
	(A) (C)	Summer South West Monsoon	(D)	North East Monsoon Winter
105	D1 - 1			
105.		ris minor is a major weed in Rice	10	NIT
	(A) (C)	Sorghum	(D)	Wheat
	(0)	Sorgnum	(D)	Tobacco
106.	Chem	icals that reduce shoot growth and i	ncrease	e root growth to enable the plants to resist
	W	Growth retardants	(B)	Anti evaporants
	(C)	Soil amendments	(D)	Growth promotors
107.	Mitsc	herlich proposed the growth curve in	the vea	
20	(A)	1809	(D)	1909
	(C)	1709	(D)	1609
		HEVAN SIST		
108.	Isothe	rm is related to		
	(A)	Rainfall	(B)	Pressure
	SON	Temperature	(D)	Humidity
109.	The ch	nemical recommended for delinting in	cotton	
	(A)	Perchloric acid	BY	Concentrate sulphuric acid
	(C)	Diluted sulphuric acid	(D)	Hydrochloric acid

	(A)	Short range weather forecast is need	ed						
	(B)	Medium range weather forecast is needed							
	105	Short and Medium range weather forecast is needed							
	(D)	Long range weather forecast is neede	d						
111.	Acid o	delinting in cotton can be done using							
	(A)	Hydrochloric acid	(B)	Acetic acid					
	10	Concentrated sulphuric acid	(D)	Diluted sulphuric acid					
112.	Zinc s	sulphate application to rice in zinc defi	cient s	soil at the time of last nuddling is					
	-	20 – 25 Kg ha ⁻¹	(B)	50 Kg ha ⁻¹					
	(C)	5 Kg ha ⁻¹	(D)	10 Kg ha ⁻¹					
110	0								
113.	-	n of cereals is	(D)	1177					
	(A)	Rice Maize	(B)	Wheat					
	Who have	Maize	(D)	Ragi					
114.	Pome	granate is propagated using							
	(A)	Rooted cuttings alone	(B)	Layers alone					
	Jes	Rooted cuttings and layers	(D)	Seeds alone					
115.	Awat	ershed is a							
	(A)	Physical land	0	Geohydrological unit of land					
	(C)	Vegetative unit of land	(D)	Water holding topography					
116.	Sorgh	um plant tries to avoid transpiration	during	day time by					
-34	(A)	Swelling of its leaves	(B)	Drying of leaves					
	(0)	Rolling of its leaves	(D)	Shrinking of leaves					
	1								
117.		refers to	-						
	(A)	Program for Regional Agriculture		Participatory Rural Appraisal					
	(C)	Program for Research and Appraisal	(D)	Project Research Agency					

110. For effective on farm management practices a reliable system of





118.	WUI	E is the highest in		
	(A)	Flood irrigation	(B)	Border irrigation
	(C)	Sprinkler irrigation	. 0	Drip irrigation
119.	Darc	y's law in water management expla	ains	
	(A)	Flow of water in dam	(B)	Flow of water in soil
	(C)	Flow of water in forest trees	(D)	Flow of soil in hills
120.	Incer	otisols are otherwise called as		
	VI	Alluvial soils	(B)	Black soils
	(C)	Red soils	(D)	Laterite soils
121.	Whic	h of the following nutrients is requ	ired for sy	nthesis of cystine and methionine?
	(A)	Nitrogen	(D)	Sulphur
	(C)	Phosphorus	(D)	Manganese (Mn)
122.		ern is called as	ticles and	their aggregates into a certain definite
	4	Soil structure	(B)	Soil monolith
	(C)	Soil texture	(D)	Soil reaction
123.	The i	ncreasingly dominant active factor	in soil for	mation is
				Nature of parent rock
	(C)	Man and animal	(D)	Micro organisms
124.	ET (E	Evapo Transpiration) can be measur	red using	
	(A)	Lactometer	(B)	Lysimeter
	(C)	Heliometer	(D)	Hydrometer
125.	CRID	A (Central Research Institute on D	ry land A	griculture) is located at
	(A)	Chennai	(B)	Arupukottai
	10	Hyderabad	(D)	Kovilpatti
	-			

126. The total pore space of the soil occupied by air and water is on

50:50 basis

(B) 25:75 basis

(C) 5:95 basis

(D) 45:55 basis

127. The average percentage of nitrogen in vermicompost is

(45) 3

(B) 30

(C) 10

(D) 15

128. One of the following implement is used to break the hard pan

(A) Country plough

Chisel plough

(C) Cultivator

(D) Rotary weeder

129. Nitrogen contribution to the succeeding crop whom greengram is grown earlier

(A) 15 to 20 kg N/ha

(B) 15 to 120 kg N/ha

(C) 40 to 120 kg N/ha

(D) 20 to 30 kg N/ha

130. The sustainable agriculture movement started in

1981

(B) 1991

(C) 1993

(D) 1998

131. The N content of azolla is

(A) 1.0 - 2.0%

(C) 0.01 - 0.02%

0.2 - 0.3%

(D) 5.0 - 10.0%

132. The most suitable intercrop in Maize is

(A) Cowpea

(B) Sorghum

(C) Cotton

(D) Potato

133. Social classes are classified based on

(A) Religion

(B) Community

(0)

Economic status

(D) Political status

The National seed corporation was established in the year

(A) 1961 1963

(C) 1965

(D) 1966

135. The -- gland of worker bee secretes royal jelly.

(A) Mandibular gland

(B) Dufour's gland

Hypopharyngeal gland

(D) Rectal gland

Match List I and List II and select the correct answer using the codes given in the option. 136.

		List I					
(a)	Hone	y mushr	oom				
(b)	Sacre	Sacred mushroom					
(c)	Pine mushroom						
(d)	Shiita	ake mus	hroom				
	(a)	(b)	(c)	(d)			
(A)	2	1	4	3			
(B)	4	2	1	3			
(C)	,1	3	4	. 2			
- (DA	9	1	4	0			

List II

- 1. Tricholoma matsuke
- 2. Armillaria mellea
- Lentenus edodes 3.
- Psilocybe semilanceata 4.

- Measuring performance against pre determined goals is called 137.
 - (A) management

measurement

(C) planning

- evaluation
- 138. The total porosity of the soil is higher in
 - (A)
- Sandy soils
- Clayey soils

- (B) Sility soils
- (D) Loamy soils
- The optimum temperature for activities of the most of the micro organisms is 139.

25

(A) $15 - 20^{\circ}C$ (B) 20 - 25°C

25 - 35°C

(D) $35 - 45^{\circ}C$



140.	Tritic	ale a man made cereal was developed	by cros	ssing
	(A)	wheat and maize	(B)	wheat and rye
	(C)	wheat and rice	(D)	wheat and sorghum
141.	Detas	sseling is practiced for hybrid seed pro-	duction	n in
	(A)	Sorghum	(B)	Bajra
	400	Maize	(D)	Ragi
142.	The r	ninimum isolation distance for foundation	tion se	ed production of hybrid pearl millet is
	(A)	200 m	(B)	400 m
	(C)	800 m	DI	1000 m
143.	Chro	mosome doubling can be done in plants		
	(A)	Giberellic acid	DI	Colchicine
	(C)	Ethylene	(D)	Proline
144.	The s	sex in plants was first discovered by		
	(A)	Darwin	(B)	Linnaeus
	0	Camerarius	(D)	Frankel
145.	The p	oloidy level of seedless watermelon is		
	(A)	tetraploid	W)	triploid
	(C)	monoploid	(D)	hexaploid
146.		ne carrying one chromosome pair from tic chromosome complement is known		ifferent species in addition to the normal
	VAY	Alien – Addition line	(B)	Alien – Substitution line
	(C)	Alien monosomic	(D)	Alien nullisomic
147.	1	enzymes that cuts the interr	nal DN	A sequence at specific sites.
	(A)	Lambda exonuclease	(B)	SI nuclease
	(C)	Klenow polymerase	0	Restriction endonucleases





148. In which of the following crop is a allopolyploids but nullisomics and genomic substitution tolerated

(A) Potato

(B) Groundnut

(C) Cotton

(D) Wheat

149. The polymerase chain reaction (PCR) technique was developed by

W

Kary Mullis

- (B) Haberlandt
- (C) Guha and Mageshvari
- (D) Jenson

150. Sorghum halepense is a tetraploid with chromosome number

(A) 2n = 4x = 28

(B) 2n = 4x = 40

(C) 2n = 4x = 52

(D) 2n = 4x = 44

151. The beneficiaries in Small Farmer Development Agency (SFDA) were the farmers who owned land holdings with the size

(A) 7.5 to 10 acres

(B) 5.0 to 7.5 acres

2.5 to 5.0 acres

(D) Below 2.5 acres

152. In marker assisted selection (MAS), selection is based on Molecular Markers closely linked to the gene of interest rather than the gene itself is known as

- (A) Background selection
- Foreground selection

(C) Gene selection

(D) Marker selection

153. The first cross between wheat and Rye was made by

(A) Rimpau

(B) Karpechenko

(C) Kihara

(D) Lysenco



104.	The	colour of Breeder seed tag is		
	(A)	White	(B)	Azure Blue
	JOY .	Golden yellow	(D)	Opal Green
155.	Pres	ence of 'B' line in 'A' line population in	Sorgh	um hybrid seed production plot is called
	(A)	Shedding tassel	(B)	Selfed toll
	(C)	Partials	DY	Pollen Shedders
156.	Find	the odd one		
	(A)	Velvet Roll Separator	(B)	Magnetic Separator
	(C)	Inclined Draper	000	Gravity Separator
	-			
157.	Unde	er which section of the Indian Seeds Ac	t. 196	6 the varieties are notified
	(A)	Sec. 3		Sec. 5
	(C)	Sec. 7	(D)	Sec. 9
158.	Seed	pelleting is a		
	\(A)	pre-souring seed treatment	(B)	pre-storage seed treatment
	(C)	post-storage seed treatment	(D)	mid-storage seed treatment
	(0)	poor storage seed meanment	(D)	mid-storage seed treatment
159.	Whic	h of the following types of factor substi	tuti-	
200.	(A)	Constant rate	VD	Decreasing rate
	(C)	Increasing rate	(D)	Fixed proportions
			(-)	Proportions



160.



	(A)	100	(B)	500
	5	1000	(D)	1500
*				
161.	Mini	mum number of field counts to be take	en in aı	n area of 5 ha seed field
	(A)	5	(B)	6
	4	7	(D)	8
162.	The n	najor genetic contaminant found in m	aize hy	brid seed production plot is
	(A)	Selfed plants	(B)	Partials
	(C)	Pollen shedders	9	Shedding tassels
163.	The n	naximum temperature for safe drying	of orth	odox seeds is
	(A)	40°C	(B)	41°C
	(C)	42°C	DY	43°C
164.	Which	n one of the following is seed upgrading	g mach	nine?
	(A)	Debearder	(B)	Destoner
	(C)	Pre-conditioning / scalper	0	Gravity separator
165.	The p	riming agent, which does not penetra	te the c	ell wall is
	W	PEG	(B)	Mannitol
	(C)	D.Mannitol	(D)	Halogens

How many number of heads to be counted/count during field inspection of paddy seed crop?





166.	The method adopted for the assessment of downy mildew disease in Grapes is									
	(A)	A) Single point assessment								
	(B)	B) Assessment in terms of percentage								
	C	Assessment using descriptive charts								
	(D)	Probit transformations								

167.	The e	effective biological weed killer for the pr	rickly	pear <u>Opuntia</u> <u>dillenii</u> is						
	SI	Dactylopius tomentosus	(B)	Orthezia insignis						
	(C)	Ophiomyia lantanae	(D)	Zygogramma bicolorata						
168.	A pro	oblem weed, whose seed once mixed wi	ith ero	op seed is extremely difficult to separate is						
	called	d as								
	(A)	Non parasitic weed	(B)	Objectionable weed						
	(C)	Parasitic weed	(D)	Aquatic weed						
169.	Coffe	e green bug is effectively controlled by	using	the entomophagous fungi						
	(A)	Hirsutella thompsoni	BY	Lecanicillium lecanii						
	(C)	Beauveria bassiana	(D)	Aspergillus flavus						
170.	The	constant watch on the population dyna	mics o	f pest is called as						
	(A)	Pest observation	SBI	Pest surveillance						
	(C)	Pest survey	(D)	Pest monitoring						
				AND THE RESERVE OF THE PARTY OF						

111.	In (cotton, rosetting of flowers is cause	ed by		
	(A)	American bollworm			
	VOI	Pink bollworm			Maria Carana
	(C)	Spiny bollworm			
	(D)	Spotted bollworm			
172.	The	field carry over storage pest in pu	ulses is		
	(A)	Pulse pod bug	(B)	Pulse pod fly	
	(C)	Pulse pod wasp	9	Pulse beetle	
173.	Nem	atodes produce seed galls in ——	cr	op	
	(A)	Paddy	(B)	Tomato	
	(O)	Wheat	(D)	Mustard	
•					
174.	Citru	s nematode Tylenchulus semipen	etrans is a		nematode.
	(A)	Endoparasitic		ا ا ا حيرا	
	DI	Semi Endoparasitic			罗在 魏
	(C)	Sedentary Ectoparasitic			
	(D)	Migratory Ectoparasitic			
175.	Identi	ify the incorrect answer with perti	inent is as	coma produced by	the fungus
1	A	bracket	(B)	perithecium	
	(C)	apothecium .	(D)	pseudothecium	



100	XX71-2-1	anat in	anid	to bo	imit	coet	of	production?
176	Which	COST 18	said	to be	unit	COSL	OI	production:

total cost (A)

average fixed cost

- average variable cost (C)
- average cost

Elasticity of production is obtained directly from which production function? 177.

(A) Linear Quadratic

Square root (C)

Cobb Douglas

Which statements are correct for continuous production function? 178.

- Input can be split into small unit 1.
- Output can be split into small unit 2.
- Input and output can be split into small units 3.
- Both input and output cannot be split. 4.
- (A) 4 only

1 and 2 only (B)



1, 2 and 3 only

(D) 1, 2, 3, 4 only

Match the following: 179.

NABARD Refinances the following projects to the tune of

- Farm mechanisation (a)
- 100%

50%

Biogas (b)

2. 70%

- Non-farm sector schemes 3. (c) Other schemes
- 75%

- (a)
- (c) (d)
- (A) 3

(d)

- 4

1

- (B) 1
- 3

2

2

- (C) 4
- 2

(b)

1

3

- 3
- 2



Match the following: 180.

(a)	AFC
(9)	AHL

1. Curve crosses both AVC and ATC at their minimum

(b) AVC

2. An hyperbola declining at decreasing rate

TVC (c)

3. U shaped

(d) MC

Increasing and decreasing rate, later at increasing rate 4.



(a)

1

- (b)
- (c) (d)
- 3
- 4

- (B)
- 3
- 2
- (C) 2
- 4

2

- (D) 1
- 3 3

1

1

- The following is not a disadvantage of specialized farming 181.
 - (A) failure of crop



increase in the skill of the farmer

- non-utilization of productive resources (C)
- affects the soil health (D)
- Line representing various combination of two inputs that can be purchased with given 182. outlay of fund is called as
 - (A) Iso-quant



Iso-cost line

(C) Iso-revenue line

- (D) Income curve
- Which of the following is not a system of farming based on ownership and operationship?

33



dry farming

state farming (B)

(C) collective farming

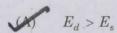
capitalistic farming (D)





184.	When large number of seller deal in heterogenous and differentiated form of commodity is called									
	(A)	perfect market								
	(B)	oligopoly market								
	(C)	oligopsony market								
	S	monopolistic competitive market								
185.	First	First state warehousing corporation was set up in								
*	(A)	Tamilnadu	B	Bihar						
	(C)	Kerala	(D)	Maharastra						
186.	The e	The expert group on Agricultural marketing was established under the chairmanship of								
	4	Acharya	(B)	Dantwala						
	(C)	Shankarlal Guru	(D)	Jha. L.K.						
187.	Apex	organisation of marketing co-operative								
	(A)	NCDC	(B)	NAFED						
	(C)	FCI	(D)	CCI						
188.	APEI	APEDA functions under the								
	(A)	Ministry of Agriculture								
	(B)	B) Ministry of Food and Consumer Affairs								
	Ver	Ministry of Commerce and Industry								
	(D)	Ministry of Finance								

189. In convergent form of Cobb-Web cycle, the relationship between E_d and E_s is

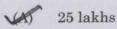


- (B) $E_d < E_s$
- (C) $E_d = E_s$
- (D) $E_s > E_d$
- 190. The Central Agmark laboratory is located in
 - (A) Bangalore
 - (B) Mumbai
 - (C) New Delhi
 - Nagpur Nagpur
- 191. In 2017–18, how much percentage of government's total expenditure has been allocated to provide food subsidies under targeted public distribution system?
 - (A) 7.2%
 - (B) 7.5%
 - 7.6%
 - (D) 7.4%

Adda 247

192. All small scale units with investment limit in plant and machinery upto irrespective of the location of the unit are called tiny enterprises.

35



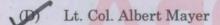
- (B) 22 lakhs
- (C) 23 lakhs
- (D) 20 lakhs

=





- 193. The adopter category considered as 'friends and neighbours' by other members in the social system.
 - (A) Innovators
 - (B) Early adopters
 - Early majority
 - (D) Late majority
- 194. What is the percentage of early adopters in the social system?
 - (A) 2.5%
 - 13.5%
 - (C) 34%
 - (D) 16%
- 195. The Etawah Pilot project in Uttar Pradesh was originated by
 - (A) Sir Daniel Hamilton
 - (B) Dr. Spencer Hatch
 - (C) Mahatma Gandhiji



196. IVLP stands for

- (A) Indian Village Linkage Programme
- (B) Indian Village Linkage Plan

Institution Village Linkage Programme

(D) Integrated Village Lab to land Programme

197.	Integrated	child	develop	ment	services	scheme	was	started	in	the ye	ear
------	------------	-------	---------	------	----------	--------	-----	---------	----	--------	-----

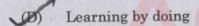
- (A) 1976
- D 1975
- (C) 1977
- (D) 1980

198. The best extension method to teach a skill involved in the particular practice

- (A) Group discussion
- Method demonstration
- (C) Result demonstration
- (D) Lecture

199. Method demonstration works based on the principle of

- (A) Learning is believing
- (B) Seeing is believing
- (C) Learning by teaching



200. Mention the stage at which poster is most effective?

- Awareness
- (B) Interest
- (C) Trial
- (D) Evaluation















SEAL

