



#### READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS

Booklet Sr. No.		Question Booklet Set
		Λ
Candidate's Name		A
Father's Name		
Date of Birth :		
$\mathbf{D}  \mathbf{D} \qquad \mathbf{M}  \mathbf{M} \qquad \mathbf{Y}  \mathbf{Y}  \mathbf{Y}  \mathbf{Y}$		
OMR Response Sheet No	Roll No	
	[[]]	O
Candidate's Signature :	_	Questions: 120]
(Please sign in the box)	[Time All	lowed : 2 Hours]

#### INSTRUCTIONS

- 1. The candidate shall NOT open this booklet till the time they are told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
- 2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of lnk pen or any other pen is not allowed.
- 3. Other than filling credentials/information in specific space allotted above, do not write anything else on the Test Booklet. Space for rough work is provided at the end. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
- 4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
- 5. The question paper booklet has 28 pages.
- 6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages are printed correctly and there are no blank or torn pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
- 7. The serial number of the new Question booklet, if issued for some reason, should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
- 8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the <u>MOST APPROPRIATE</u> answer on the OMR response sheet.
- 9. There is **negative marking** (1 mark for each question) for questions wrongly answered by the candidate.
- 10. If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers is correct. There will be same penalty, as above, to that question.
- 11. If Question is left blank, i.e. guestion remains unattempted, there will be no penalty for that guestion.
- 12. Use of Electronic/Manual Calculator is prohibited.
- 13. The candidate <u>MUST READ INSTRUCTIONS BEHIND THE OMR SHEET</u> before answering the questions and check that two carbon copies attached to the OMR sheet are intact.



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- **1.** Consider the following statements :
  - 1. 'Painted Bug' causes damage to Mustard
  - 2. Ascochyta blight is a fungal disease of Chickpea
  - 3. Insect 'Fall army worm' generally prefers to attack the Maize crop
  - 4. 'BL-43' and 'BL-42' are the varieties of Barley

Choose the correct statements.

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2 and 4 only
- **2.** Fill in the blanks in List I from List II (Choose the most appropriate option)

•	•	•

# List II

- 1. The optimum seed rate for sowing one hectare of pearl millet is: X
- 2. The optimum seed rate for timely sown fieldpea crop (for 1 hectare) is: <u>Y</u>
- P. 70-80 Kg
- Q. 7-8 Kg
- R. 40-50 Kg
- S. 4-5 Kg

X and Y are respectively:

#### Code:

 $\mathbf{X} \quad \mathbf{Y}$ 

- (a) P R
- (b) Q S
- (c) R Q
- (d) S P
- **3.** A number of electro-chemical changes happen in the paddy soils due to the continuous submergence or flooding. Which one of the following statements is incorrect about the electro-chemical changes in the submerged paddy soils?
  - (a) Increase in pH of the acid soil
  - (b) Decrease in pH of the sodic soil
  - (c) Increase in redox potential of the soil
  - (d) Decrease in redox potential of the soil



4.	Cho	ose the correct statements :		
	1.	In honey bee colony, the worker bee is		
	2.	In honey bee colony, the worker bee is		
	3.	Insects with single pair of membra halters belong to Diptera order.	nous	wings and hind pair modified into
	4.		nous	wings and hind pair modified into
	(a)	1 and 3 only	(b)	2 and 3 only
	(c)	2 and 4 only	(d)	1 and 4 only
5.		bitory activity of one plant species com oots on the seed germination or growth	-	9
	(a)	Antibiosis	(b)	Commensalism
	(c)	Allelopathy	(d)	Negativism
6.		process of breaking, scratching or mech neable to water and gases is called as :	hanic	al abrasion of the seed coat to make it
	(a)	Chopping	(b)	Notching
	(c)	Solidification	(d)	Scarification
7.	Wha	at quantity of nitrogen can be supplied l	ov 300	Okg diammonium phosphate (DAP)?
	(a)	45 kg	(b)	54 kg
	(c)	90 kg	(d)	120 kg
8.	Whi	ch of the following expressions is used t	o calo	culate real value of seed ?
	(a)	[Purity (%) × Germination (%)] / 100		
	(b)	[Purity (%) $\times$ (100)] / Germination (%)		
	(c)	[Germination (%) × $(100)$ ] / Purity (%)		
	(d)	[Purity (%) × Germination (%)] × 100		
•	a			
9.		sider the following statements:	0	
		India is largest producer of Potassium		lizer in the world.
	2.	Blind hoeing is possible in Sugarcane.		
	3.	When primary tillage is completely as seedbed preparation in the row zone o		l and secondary tillage is restricted to t is known as Zero tillage.
	Whi	ch of these statements are incorrect?		
	(a)	1 only	(b)	3 only
	(c)	1 and 2 only	(d)	2 and 3 only
10.	Acid	soils are generally found and formed in	n·	

(a)

(b)

(c) (d) Humid regions with high rainfall

Semi-arid regions with less rainfall

Arid regions with low rainfall

Either (b) or (c)



- **11.** Which one of the following groups of essential plant nutrients falls in the 'non-mineral nutrients' category ?
  - (a) Primary nutrients
  - (b) Secondary nutrients
  - (c) Micronutrients
  - (d) C, H and O
- **12.** Consider the following statements :
  - 1. Chemically, quick lime is CaO
  - 2. 'Zinc sulphate heptahydrate' contains approximately 42% Zinc
  - 3. Fertilizer 'single super phosphate' contains approximately 42% Sulphur

Choose the correct statement(s):

- (a) 1 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 2 and 3 only
- **13.** Choose the correct statement(s):
  - (a) When greengram are allowed to sprout, Vitamin C is synthesized.
  - (b) BPH is a pest of rice that causes 'hopper burn' symptoms.
  - (c) Both (a) and (b)
  - (d) Neither (a) nor (b)
- **14.** For Punjab, 'Rice (short duration) Vegetable Pea Wheat Mungbean' rotation is an example of:
  - (a) One-year rotation
  - (b) One and half-year rotation
  - (c) Half-year rotation
  - (d) Two-year rotation
- **15.** Find out the quantity of atrazine herbicide WP containing 50% active ingredient (a.i.) to be applied at the rate of 1.5 kg a.i./ha.
  - (a) 1.0 kg/ha
  - (b) 2.0 kg/ha
  - (c) 3.0 kg/ha
  - (d) 0.75 kg/ha





16.		ch one of the following nitrogenous fertilizers is not included in the Fertilizer trol Order (FCO) of India ?
	(a)	Ammonium sulphate
	(b)	Calcium Ammonium Nitrate
	(c)	Ammonium nitrate
	(d)	All of the above
17.	Base	ed upon morphological features, weeds have been classified into grassy, sedges and
	broa	adleaf groups. The sedges belong to the plant family:
	(a)	Poaceae
	(b)	Asteraceae
	(c)	Graminae
	(d)	Cyperaceae
18.	Rice	e weeds <i>Echinochloa crus-galli</i> and <i>Echinochloa colona</i> belong to the following
	grou	up of plants :
	(a)	CAM plants (b) C <sub>4</sub> plants
	(c)	C <sub>3</sub> plants (d) Dicot plants
19.	If or	n a 20-acre farm, crops are raised on 15 acres in kharif (rainy season), 15 acres in
	rabi	(winter season) and 20 acres in zaid (summer) during one year, what would be the
	crop	oping intensity of the farm?
	(a)	150% (b) 250%
	(c)	350% (d) 500%
20.	"We	irs" and "Flumes" are primarily used to :
	(a)	Measure refractive index of water
	(b)	Measure the viscosity of water in the field
	(c)	Measure the density of water in the channel
	(d)	Measure the water flow in the channel
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21.	Whi	ch one of the following is the correct pa	ir of	S	ulphur containing amino acids ?
	(a)	Cysteine and lysine			
	(b)	Cysteine and leucine			
	(c)	Cysteine and methionine			
	(d)	Cysteine and isoleucine			
22.	The	"Bangalore process" of anaerobic comp	ostin	ıg	was developed by:
	(a)	Albert Howard	(b)		C.N. Acharya
	(c)	P.N. Arya	(d)		Robert Howard
23.	Cho	ose the most suitable option :			
	(a)	Sorghum grain is considered as Caryo	psis.	•	
	(b)	Ergot or sugary disease of sorghum is	prim	na	arily caused by <i>Gleocercospora sorgh</i> i.
	(c)	Both (a) and (b)			
	(d)	Neither (a) nor (b)			
24.		optimum sowing time of chickpea in the	ne No	or	th India under the irrigated condition
	is:				
	(a)	First fortnight of October			
	(b)	<u> </u>			
	(c)	First fortnight of December			
	(d)	Second fortnight of November			
9 <b>5</b>	44 <b>T</b> T	1070" 1411 001" 11 '1'	n.		
<b>25.</b>		1373" and "LL 931" are the varieties of	I <b>:</b>		
	(a)	Kabuli chickpea			
	(b)	Desi chickpea			
	(c)	Linseed			
	(d)	Lentil			
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26.	Consider the	e following	statements	about Sovb	ean and	choose the	correct or	otion :

- (a) It is considered to have originated in Brazil
- (b) It is considered to have originated in USA
- (c) It is a short day plant
- (d) It is a temperate C4 plant
- **27.** The 'sterility mosaic' disease of pigeonpea is caused by X; and, Out of Sand, Peat and Clay, Y has highest Soil bulk density. Identify X and Y (respectively):
  - (a) Virus and clay
  - (b) Bacteria and clay
  - (c) Nematode and peat
  - (d) Virus and sand
- 28. The state with highest production of green gram (mungbean) in India and country with highest production of pigeonpea in the world are respectively:
  - (a) Punjab & India
  - (b) Rajasthan & India
  - (c) Madhya Pradesh & China
  - (d) Uttar Pradesh & China
- **29.** "Canola" refers to the cultivars of Oilseed rape in Canada. The seeds of "Canola" should contain:
  - (a) <20% erucic acid

(b) >20% erucic acid

(c) >2% erucic acid

- (d) <2% erucic acid
- **30.** Powdery mildew of pea and Dropsy disease in human beings may respectively be caused by:
  - (a) Fusarium pisi and weed Pluchea lanceolata
  - (b) Erysiphe pisi and weed Argemone Mexicana
  - (c) Uromyces fabae and weed Digera arvensis
  - (d) Fusarium pisi and weed Convolvulus arvensis



31.	Con	sider the following statements and choose	th	e co	orrect option :
	1.	Uranyl acetate stain is used in electron	mio	cros	scopy
	2.	Etiology is study of cause of disease			
	3.	Etiology is study of symptom of disease			
	4.	Phyllody is development of floral organs	int	to le	eaf-like structures
	(a)	1, 2 and 4 only ()	<b>o</b> )	1,	3 and 4 only
	(c)	1 and 3 only	(f	2	only
<b>32.</b>	Fill	in the blanks choosing suitable entities fr	om	the	e options given below :
	1.	Muriate of potash is not recommended for	or _	<u>X</u>	
	2.	A bacterium capable of mobilising potas	siu	m i	s <u>Y</u>
	X ar	nd Y are (respecitvely):			
	(a)	Tobacco and Frateuria aurantia			
	(b)	${\bf Rice\ and}\ Azotobacter\ chroococcum$			
	(c)	${\bf Coconut\ and}\ Azospirillum\ lip of erum$			
	(d)	Maize and Piriformospora indica			
33.	Cho	ose the correct statement			
	(a)	Of the pigeon pea, soybean, green gran oil content	n a	nd	castor, castor contains the highes
	(b)	Of the groundnut, mustard, cotton and linoleic acid	d sa	affl	ower, mustard contains maximun
	(c)	Both (a) and (b)			
	(d)	None of the above			
34.	Mat	ch the following entities in List I from ent	titie	es o	f List II :
		List I			List II
	1.	Insecticide Act was passed in the year	F	٥.	1968
	2.	In India, the MRL is fixed by	(	Q.	1998
			F	₹.	CODEX
			S	3.	FSSAI
			7	·	ICAR
	Cod	le:			
		1 2			
	(a)	P R			

(b)

(c)

(d)

P

Q

Q

 $\mathbf{S}$ 

R

 $\mathbf{T}$ 

(A-8)





<b>35.</b>	Saffl	ower in India is usually grown during		
	(a)	Rabi season		
	(b)	Kharif season		
	(c)	Zaid season		
	(d)	Rabi, kharif and zaid seasons		
36.		pared to popular rice varieties, 'DRR I	)han	48' and 'DRR Dhan 49' contain higher
	level	s of:		
	(a)	Iron		
	(b)	Zinc		
	(c)	Boron		
	(d)	Molybdenum		
<b>37.</b>	1.	High yielding dwarf varieties of wheat	t were	e developed by X
	2.	The term 'Evergreen Revolution' has k	een g	given by Y
	Iden	tify X and Y (respectively):		
	(a)	Dr. M. S. Swaminathan and Dr. R. S.	Paro	da
	(b)	Dr. R. S. Paroda and C. T. Patel		
	(c)	Dr. N. E. Borlaug and Dr. M. S. Swam	inath	nan
	(d)	Dr. B. P. Pal and Dr. R. S. Paroda		
38.	The	term 'cultivar' is used to designate	a ne	ew crop type intentionally bred and
		ased for cultivation. Who has been cre	dited	with coining of the term 'cultivar' in
	•	1923 ?	<b>(1.)</b>	3500
	(a)	L.H. Bailey	(b)	M.S. Swaminathan
	(c)	John Ray	(d)	A.P. de Candolle
39.	"Tun	agro virus" of rice is usually transmitted	d by:	
	(a)	Gundhy bug	(b)	Gall midge
	(c)	Army worm	(d)	Green leaf hopper
40.		t would be the harvest index of rice if tonnes/ha?	grain	yield is 3.5 tonnes/ha and straw yield
	(a)	35%	(b)	45%
	(c)	54%	(d)	65%
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	m	(DGG) VI		
41.		'PGS', with respect to the organic cert		
	(a)	Pesticides Governance Scheme	(b)	Paramparagat Gram Scheme
	(c)	Participatory Governance Service	(d)	Participatory Guarantee System
<b>42.</b>	The	most common colour of the cultivated	groun	dnut flowers is :
	(a)	Yellow	(b)	Pink
	(c)	Blue	(d)	Red
43.	Par	ticles ranging from 0.01 – 0.03 mm dia	ımeter	would be considered as
	(a)	Sand	(b)	Silt
	(c)	Clay	(d)	Gravel
44.	Rice	e is basically a :		
	(a)	Short day plant	(b)	Long day plant
	(c)	Day-neutral plant	(d)	Both (b) and (c)
<b>45.</b>	The	theoretical yield of parent acid from a	n activ	ve ingredient is termed as
	(a)	Active equivalent	(b)	Technical ingredient
	(c)	Acid equivalent	(d)	Acid value
46.	Whi	ich of the following is/are advantages o	of crop	rotation ?
	1.	To reduce the pest and disease incide	ence.	
	2.	To maintain the fertility status of th	e soils	
	3.	To keep the weeds under control		
	(a)	1 only	(b)	2 only
	(c)	1 and 3 only	(d)	1, 2 and 3
<b>47.</b>	The	Dapog method of raising rice nursery	was ir	ntroduced in India from
	(a)	Burma	(b)	Japan
	(c)	USA	(d)	Philippines
48.	Whi	ich of the following statement(s) is/are	correc	et ?
	1.	Phenylmercuric acetate (PMA) is a cincrease transpiration.	hemic	al used in agriculture crops in order to
	2.	Enforced dormancy is associated wit	h deep	er placement of seeds.
	(a)	1 only	(b)	2 only
	(c)	Both 1 and 2	(d)	Neither 1 nor 2
lung	2-202	2Δ (Δ –	10 )	



<b>49.</b>	Cho	ose the most suitable option :				
	(a)	Commelina benghalensis is a monoco	ot weed	d unlike <i>Crotalaria verrucosa</i>		
	(b)	Crotalaria verrucosa is a monocot we	eed un	like Commelina benghalensis		
	(c)	Both Commelina benghalensis and C	Crotala	ria verrucosa are monocot weeds		
	(d)	Neither Commelina benghalensis no	r <i>Croto</i>	alaria verrucosa are monocot weeds		
<b>50.</b>	Cho	ose the correct option :				
	(a)	Hay fever is commonly caused by An	nbrosia	a		
	(b)	(b) Weed introduction from some other part of the world is called Antagonism				
	(c)	Both (a) and (b)				
	(d)	None of the above				
<b>51.</b>	Gold	den rice is a rich source of				
	(a)	Vitamin A	(b)	Vitamin B		
	(c)	Ascorbic acid	(d)	Vitamin K		
<b>52.</b>	Consider the following statements and choose the correct option:					
	1.	$\mathrm{CH}_4$ is released from paddy fields.				
	2.	Pearlmillet can be transplanted.				
	3.	Scientific name of Kodo millet is Pas	palum	scrobiculatum		
	(a)	1 only	(b)	1 and 2 only		
	(c)	2 and 3 only	(d)	1, 2 and 3		
<b>53.</b>	Swe	eet corn is:				
	(a)	Zea mays indentata				
	(b)	Zea mays indurata				
	(c)	Zea mays saccharata				
	(d)	Zea mays amylacea				
<b>54.</b>	The oil content in groundnut seeds is about %					
	(a)	45	(b)	25		
	(c)	15	(d)	05		
<b>55.</b>	The	fruit of rapeseed and mustard is know	vn as			
	(a)	Pod	(b)	Caryopsis		
	(c)	Siliqua	(d)	Dutum		

(A - 11)





<b>56.</b>	Nip	ping in gram means a process of
	(a)	Removal of all buds present in the axil of the leaves
	(b)	Removal of leaves
	(c)	Removal of terminal bud
	(d)	Burning of leaves
<b>57.</b>	Whi	ch of the following soil water is the most useful for plants?
	(a)	Gravitational water
	(b)	Capillary water
	(c)	Hygroscopic water
	(d)	Superfluous water
<b>58.</b>	The	force of attraction that binds the molecules of the same kind is:
	(a)	Adhesion
	(b)	Matric force
	(c)	Cohesion
	(d)	Interface
59.		'Leaf colour chart' (LCC) is used for judging the amount of nitrogen application to standing crop(s) of which of the following ?
	(a)	Gram and mustard
	(b)	Rice
	(c)	Mustard and sorghum
	(d)	Sorghum and gram
60.	Exte	ension is a :
	(a)	One way flow of message
	(b)	Two way flow of message
	(c)	Restricted way flow of message
	(d)	None of the above
luna	2-202	$(\Delta - 12)$



G1

61.	Match the following:	
	List I	List II

1. Author of the famous book 'Species Plantarum' P. Carl Linnaeus

2. Proposed the concept of 'plant ideotypes' for the first time Q. G.H. Shull

3. Coined the term 'heterosis' for the first time R. C.M. Donald

#### Code:

_	_	_
1	${f 2}$	• • • • • • • • • • • • • • • • • • • •
	4	3

- (a) P Q  $\mathbf{R}$
- (b) R Q P
- (c) P R  $\mathbf{Q}$
- (d) R P Q
- **62.** Consider the following statements:
  - 1. The wheat grain protein is called 'X'.
  - 2. Initially, the potassium deficiency symptoms in barley appear on 'Y'.

Identify correct pair of X and Y (respectively)

- (a) Zein and Upper leaves
- Gluten and Upper leaves (b)
- Glycinin and Middle leaves (c)
- Gluten and Lower leaves (d)
- If 30 maize plants are counted in 5 metre of row length and the row spacing is 60 cm, **63.** what will be the population density of maize?
  - (a) 50,000 plants/ hectare

(b) 75,000 plants/hectare

(c) 1,00,000 plants/hectare (d) 1,25,000 plants/hectare

64. Flooding kills the weeds by excluding the \_\_ from their environment.

Air (a)

(b) Water

(c) Nutrients (d) Microbes

- Loss of horizontal resistance to a plant disease during a breeding cycle is **65.** 
  - Boom and bust cycle
  - (b) Vertifolia effect
  - Quantitative resistance (c)
  - (d) Pathovar

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(A - 13)



<b>66.</b>	Soil	s with	pH < 8	8.5, EC > 4 dS	$8 \text{ m}^{-1} \text{ and ES}$	P less	than	15 are d	lesignated	l as	
	(a)	Salir	ne soils			(b)	Alka	ali soils			
	(c)	Black	k alkal	i soils		(d)	Sodi	c soils			
<b>67</b> .	Pick	k the correct statement :									
	(a)	One standard atmosphere is equal to 101,325 hPa									
	(b)	One standard atmosphere is equal to 101.325 hPa									
	(c)	Gene	Generally, dry adiabatic lapse rate per 100 m ascent is $9.8^{\circ}\mathrm{C}$								
	(d)	Gene	erally,	dry adiabatic	lapse rate pe	er 100	m as	cent is 0	.98°C		
<b>68.</b>	Con	sider t	he foll	owing statem	ents and cho	ose th	e inc	orrect on	ies:		
	1.	Wide	ely spa	ced isobars re	present steep	o chai	nge in	pressur	e		
	2.		ulo-nir ning.	nbus clouds	are associ	ated	with	heavy	rainfall,	thunder	and
	3.	India	a receiv	ves less than	normal rainfa	all un	der th	e influe	nce of La	Nina.	
	(a)	2  onl	y			(b)	3 on	ly			
	(c)	1 and	d 2 onl	y		(d)	1 an	d 3 only			
69.	Mat	Match the following entities in list I with corresponding entries in List II :									
		List	I					List II			
	1.	Fath	er of m	odern organi	c agriculture		P.	Sir Alb	ert Howa	rd	
	2.	Fath	er of Ir	ndian Plant P	athology		Q.	E.J. Bu	itler		
	3.	The	father	o <mark>f extension</mark> i	n a global cor	ntext	R.	B.B. M	undkur		
							S.	Paul L	eagans		
							T.	Sigmu	nd Freud		
	Cod	le :									
		1	2	3							
	(a)	R	Q	P							
	(b)	P	$\mathbf{Q}$	S							
	(c)	Q	R	S							
	(d)	Q	R	T							
<b>70.</b>	Yell	ow vei	n mosa	aic of okra is <sub>l</sub>	primarily tra	nsmit	ted b	y			
	(a)	Aphi	d			(b)	Whi	te fly			
	(c)	Leaf	hoppe	r		(d)	Nen	natode			
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71.	Cho	ose the correct match:						
	(a)	Mancozeb and Thiram	ı :	Systemic fu	ıngici	des		
	(b)	Glyphosate	:	Selective co	ntact	herbicide		
	(c)	Carbendazim	:	Systemic fu	ıngici	de		
	(d)	Glyphosate	:	Nonselectiv	e con	tact herbicide		
<b>72.</b>	Ferr	noxone is						
	(a)	2, 4-D ester salt			(b)	2, 4-D amine salt		
	(c)	2, 4-D sodium salt			(d)	2, 4-D ester amine salt		
<b>73.</b>	Crop	p rotations are effective	in	controlling				
	(a)	Crop bound weeds but	no	t crop associ	ated v	weeds		
	(b)	Both crop bound weed	s a	nd crop assoc	ciated	l weeds		
	(c)	Crop associated weeds	bu	it not crop bo	und v	weeds		
	(d)	Neither crop bound we	eed	s nor crop as	sociat	ted weeds		
<b>74.</b>	The	e bio-agent useful for managing water hyacinth is						
	(a)	Bactra sp.			(b)	Cyrtobagous salviniae		
	(c)	Neochetina bruchi			(d)	Dactylopius sp.		
<b>75.</b>	Cho	ose the correct options :						
	1.	First herbicide-resista		weed in the v	vorld	: Amaranthus sp.		
	2.	First herbicide-resista						
	3.	Zea mays ceratina is f						
	4.	Zea mays ceratina is v	vax	y corn				
	(a)	1 and 3 only			(b)	2 and 3 only		
	(c)	1 and 4 only			(d)	2 and 4 only		
<b>76.</b>	Con	sider the following state	eme	ents and choo	se th	e correct options :		
	1.	Leaf reddening in cott	on	is due to defi	cienc	y of Mg.		
	2.	Leaf reddening in cott	on	is due to defi	cienc	y of Zn and Ca.		
	3.	Diamond back moth is	3 a ]	pest of crucif	ers.			
	4.	Diamond back moth is	s a ]	pest of pulses	s and	oil seeds.		
	(a)	1 and 3 only			(b)	2 and 4 only		
	(c)	1 and 4 only			(d)	2 and 3 only		



77.	The	Bhopal Gas Tragedy was due the leak	age of	gas.				
	(a)	Hexane	(b)	Methane				
	(c)	Methyl thiocyanate	(d)	Methyl isocyanate				
<b>78.</b>		wo chemicals, A and B have ${ m LD}_{50}$ bectively, which one of the following sta						
	(a)	A is less toxic than B	(b)	B is less toxic than A				
	(c)	Both have equal toxicity	(d)	Both are safe chemicals				
79.		ich of the following is the most suitab soil solarisation?	ole cor	mbination related to the requirement				
	(a)	Summer season; black polythene; mo	ist soi	1				
	(b)	Winter season; black polythene; dry s	soil					
	(c)	Summer season; transparent polythene; moist soil						
	(d)	Summer season; transparent polythene; dry soil						
80.	Amo	Among the following, which group of elements is immobile in plants:						
	(a)	Ca, Cu, B, Fe	(b)	Cu, Mn, Mg, B				
	(c)	Ca, N, K, S	(d)	S, Cu, Mg, B				
81.	Whi	ich among t <mark>he f</mark> ollowing is known as th	e "Qu	een of Oilseeds"?				
	(a)	Groundnut	(b)	Sesame				
	(c)	Sunflower	(d)	Mustard				
82.	Whi	ich type of earthworm is useful for vern	nicom	posting?				
	(a)	Epigeic	(b)	Mesogeic				
	(c)	Endogeic	(d)	Endogeic or Mesogeic				
83.	1.	Central Soil Salinity Research Institu	ite is	located at X.				
	2.	2. The first KVK in India was established in 1974 at Y.						
	Ider	ntify X and Y.						
	(a)	a) Karnal and Puducherry respectively						
	(b)	Bathinda and Ahmedabad respective	ly					
	(c)	Hyderabad and Delhi respectively						
	(d)	Jaipur and Kolkata respectively						

(A - 16)



84.	Pick	x the correct statement :							
	(a)	The largest source of irrigation	n in India is c	anals					
	(b)	Sunflower is a cross pollinated crop							
	(c)	Deep ploughing is recommended twice for every season							
	(d)	World Wetlands Day is celebr	ated on $21^{ m st}$ N	<b>I</b> arch					
<b>85.</b>	Amo	ong the following, which crop ha	as the highest	water requirement in general?					
	(a)	Wheat	(b)	Cotton					
	(c)	Sugarcane	(d)	Rye					
86.	Aut	hor of the book 'The Road Back	to Nature : R	egaining the Paradise Lost' is					
	(a)								
	(b)	Subhash Palekar							
	(c)	Yoshikazu Kawaguchi							
	(d)	Masanobu Fukuoka							
87.		e process of dissolution and reosition in B horizon is called :	emoval of ses	equioxides from A horizon and their					
	(a)	Podzolisation							
	(b)	Laterisation							
	(c)	Humification							
	(d)	Calcification							
88.	The	phosphorus fixing capacity of c	lay minerals 1	may be found in order :					
	(a)	Vermiculite > Illite > Montmo	rillonite > Mu	scovite					
	(b)	Montmorillonite > Vermiculite	e > Kaolinite :	> Muscovite					
	(c)	Muscovite > Illite > Montmorillonite > Vermiculite							
	(d)	Illite > Montmorillonite > Mus	scovite > Vern	niculite					
89.	The	e organic matter content (%) of s	oil with 1.3 %	organic carbon is :					
	(a)	2.60	(b)	1.95					
	(c)	0.65	(d)	2.24					
90.	Amo	ong the following, which crop yi	elds leaf fibre	:					
	(a)	Jute	(b)	Cotton					
	(c)	Agave	(d)	Mesta					
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**91.** Identify the fauna from the following information:

Nature : Scavengers

Common species : White rumped, Slender-Billed, Red-headed
Common threats : Use of diclofenac for veterinary purposes

**Impact of decline**: Increased risk of spread of rabies and ill impact on observance of last rites by Parsis in 'Tower of Silence'.

- (a) Pygmy hog
- (b) Forest Owlet
- (c) Sandpiper
- (d) Vulture
- **92.** With respect to achievements of Indians in the field of Science and Technology, match the following:

List I List II

- 1. Inelastic theory of scattering P. S. Chandrasekhar
- 2. Work on stellar evolution and white dwarfs Q. C.V. Raman
- 3. Contribution to quantum mechanics and R. S.N. Bose development of Bose-Einstein Condensate
- 4. Research on Crescograph and S. J.C. Bose Electromagnetic Waves

Code:

- (b) Q P S R
- (d) P Q S R
- **93.** 'Naz foundation v. Government of NCT of Delhi', 'National Legal Services Authority v. Union of India', 'Navtej Singh Johar v. Union of India' cases are often heard in news in context of:
  - (a) Man-Animal conflict and wildlife conservation
  - (b) LGBTQIA + rights
  - (c) Simultaneous elections to Lok Sabha and State Legislatures
  - (d) Reservation based on caste



94.	_	inning with Dwarka, Gujarat, if you travel to Jagannath Temple, Puri along the t, what's the correct order of cities you might visit?
	1.	Mumbai
	2.	Mangalore
	3.	Panaji
	4.	Vishakapatnam
	(a)	1, 2, 3, 4
	(b)	3, 1, 2, 4
	(c)	1, 3, 2, 4
	(d)	4, 1, 2, 3
95.		Bhani, the daughter of Sikh Guru 'X', was married to Sikh Guru 'Y'. 'Z', one of the of Guru 'Y', was married to Mata Ganga and became guru of sikhs ?
	(a)	Third
	(b)	Fourth
	(c)	Fifth
	(d)	Sixth
96.	of I	per Article 266(1) of Indian Constitution, all revenues received by the Government andia, all loans raised by that government by the issue of treasury bills, loans or and means advances and all moneys received by that government in repayment an shall form:  Consolidated Fund of India
	(b)	Contingency Fund of India
	(c)	Public Account of India
	(d)	Current Account of India
97.		ch of the following abbrevations, often heard in news in context of Indian nomy, is incorrectly matched?
	(a)	CAG : Comptroller and Auditor General
	(b)	CGST: Customs, Goods and Service Taxes
	(c)	EPFO: Employees' Provident Fund Organization
	(d)	FPI : Foreign Portfolio Investment
luna	e-202	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	テノリノ	T



(a)

personal belief?

**Orwellian Politics** 

**98.** 



	(c)	Utopian Politics	(d)	Fabian Politics
99.	Arra	ange choronologically, the following eve	ents of	f modern history of Puniah :
00.	1.	Rajiv-Longowal accord	1105 0	inodern motory of ranges.
	2.	Creation of Ropar division as one of the	ne fiv	e divisions of Puniah
	3.	Trifurcation of Punjab including const		•
	4.	Guru Ka Bagh Morcha		or or separate state or traryana
	(a)	4, 2, 1, 3	(b)	4, 3, 1, 2
	(c)	3, 4, 1, 2		3, 4, 2, 1
	(0)	0, 1, 1, 2	( <b>u</b> )	5, 1, 2, 1
100.	birtl	nplace of Udham Singh from Bhagat S origin and destination districts)?		at you must pass through, to reach museum at Khatkar Kalan (including
101.	cand			at Punjab Police Academy. All these
	I.		tea,	coffee and juice are in Arithmetic
	II.	Number of candidates who drink tea juice are in Arithmetic Progression in		coffee, tea and juice, and coffee and order.
	III.	Number of candidates who drink of Arithmetic Progression in that order.	nly to	ea, only coffee and only juice are in
	IV.	Number of candidates who drink or candidates who drink only two drinks	-	ne drink is two times the number of
	V.	Number of candidates who drink on candidates who drink all the three dri	•	o drinks is nine times the number of
	How	many candidates drink coffee ?		
	(a)	130	(b)	110
	(c)	60	(d)	70
June	e-202	4 (A-2	O )	

What term is often seen in news and represents a style of politics where 'Objective

facts are less influential in shaping public opinion than appeals to emotion and

(b)

Post Truth Politics



- **102.** A cuboid has six sides of different colours. The red side is opposite to black. The blue side is adjacent to white. The brown side is adjacent to blue. The red side is face down. Which one of the following would be the opposite to brown?
  - (a) Blue
  - (b) Black
  - (c) White
  - (d) Red
- 103. A wheat merchant has four varieties of wheat A, B, C, D with him. He mixed the entire quantity of the wheat of varieties A and B with him. With this mixture, if he mixes the entire quantity of wheat of variety C, which costs ₹ 20 per kg, the mixture so formed would cost ₹ 25 per kg. Instead, if he mixes with it the entire quantity of wheat of variety D, which costs ₹ 36 per kg, the mixture so formed would cost ₹ 31 per kg. If the entire quantity of wheat of variety D is thrice that of wheat of variety C, how much (in ₹) would the mixture of the entire quantity of wheat of all 4 varieties cost
  - (a) ₹29.5 per kg
  - (b) ₹ 28 per kg
  - (c) ₹ 30.5 per kg
  - (d) ₹ 26.5 per kg
- **104. Statement 1:** The cost of 2 pens and 3 pencils is \$10.

**Statement 2:** The cost of 1 pen and 2 pencils is \$5.

To answer the question, 'What is the cost of 3 pens and 4 pencils?',

- (a) Statement 1 alone is sufficient, but statement 2 alone is not sufficient.
- (b) Statement 2 alone is sufficient, but statement 1 alone is not sufficient.
- (c) Both statements together are sufficient, but neither statement alone is sufficient.
- (d) Each statement alone is sufficient.





105. In terms of population, Chennai is much larger than Bangalore. Since Mumbai has a greater population than Delhi, it follows that Chennai has more inhabitants than Delhi.

All of the following make the argument more logically correct EXCEPT:

- (a) Delhi has fewer inhabitants than Bangalore
- (b) Bangalore has the same number of inhabitants as Delhi
- (c) Chennai has the same number of inhabitants as Mumbai
- (d) Mumbai has more inhabitants than Bangalore

**106. Directions** (**Question Nos. 106**): The following table provides the details about the number of students in 5 different areas of expertise in MBA over the years.

Years	Areas of Expertise in MBA						
rears	Marketing	Finance	Business Analyst	HR	Operations		
2017	71	149	150	133	116		
2018	126	61	105	114	154		
2019	84	109	121	104	83		
2020	65	62	142	155	97		
2021	137	57	79	121	87		

In which year was the percentage of students participating in 'Business Analyst' area of expertise maximum?

- (a) 2017
- (b) 2018
- (c) 2019
- (d) 2020



107.	Paresh can finish a certain piece of work in 35 days at a stretch.	But after few days, he
	increases his speed by $60\%$ and finishes the work in $26$ days.	Find after how many
	days did he increase his speed?	

- (a) 8
- (b) 9
- (c) 10
- (d) 11

**108.** A coconut tree is taller than a pine tree by 6 meters. A woodcutter starts cutting the coconut tree from 12 m above the ground so that after the coconut tree falls, its top just touches the bottom of the pine tree. Had he cut the pine tree from 8 m above the ground, the top of the pine tree would have fallen in a way that its top would just have touched the bottom of the coconut tree. What is the height of the coconut tree?

- (a) 33 meters
- (b) 29 meters
- (c) 27 meters
- (d) 21 meters

**109.** How many two-digit numbers are there such that the product of their digits is a perfect square greater than 1?

- (a) 18
- (b) 16
- (c) 14
- (d) 12

110. Five friends Ram, Rakesh, Ramesh, Rohit and Rupesh are sitting on a round table facing the center. Rakesh is sitting to the left of Ram. Rohit is sitting to the right of Ramesh. Ram and Ramesh are sitting next to each other. Where is Rupesh sitting with respect to Rohit?

- (a) Immediate left
- (b) Second person to the left
- (c) Third person to the left
- (d) Fourth person to the left





111. 'ਨਿੱਕੜੀ ਸੂਈ ਵੱਟਮਾਂ ਧਾਗਾ ਬੈਠ ਕਸੀਦਾ ਕੱਢ ਰਹੀਂ ਆਂ'...... ਕੀ ਹੈ ?

- (a) ਘੋੜੀ
- (b) ਬੋਲੀ
- (c) ਲੋਰੀ
- (d) ਸੁਹਾਗ

112. ਜੇ ਕਵਿਤਾ ਨੂੰ ਦਿਲ ਦੀ ਬੋਲੀ ਸਮਝਿਆ ਜਾਂਦਾ ਹੈ ਤਾਂ ਵਾਰਤਕ ਨੂੰ ਦਿਮਾਗ਼ ਦੀ ਸਿਰਜਣਾ ਖਿਆਲ ਕੀਤਾ ਜਾਂਦਾ ਹੈ। ਇਸ ਦਾ ਅਰਥ ਇਹ ਹੈ ਕਿ ਕਵਿਤਾ ਵਿਚ ਭਾਵ ਅਤੇ ਵਾਰਤਕ ਵਿਚ ਵਿਚਾਰ ਪਰਧਾਨ ਹੁੰਦੇ ਹਨ। ਵੈਸੇ ਵੀ ਸਾਹਿਤਕ ਇਤਿਹਾਸ ਵਿਚ ਕਵਿਤਾ ਪਹਿਲਾਂ ਹੋਂਦ ਵਿਚ ਆਉਂਦੀ ਹੈ ਅਤੇ ਵਾਰਤਕ ਬਾਅਦ ਵਿਚ ਲਿਖੀ ਜਾਣੀ ਸ਼ੁਰੂ ਹੁੰਦੀ ਹੈ। ਇਸ ਦਾ ਕਾਰਨ ਇਹ ਵੀ ਮੰਨਿਆ ਜਾਂਦਾ ਹੈ ਕਿ ਮਨੁੱਖ ਮੁੱਢਲੇ ਪੜਾਅ ਤੇ ਬੁਨਿਆਦੀ ਪ੍ਰਵਿਰਤੀਆਂ ਦੀ ਪੈਦਾਵਾਰ ਜਜ਼ਬਿਆਂ ਦੇ ਅਧੀਨ ਵਲਵਲਿਆਂ ਵਾਲੀ ਦਿਲ ਦੀ ਬੋਲੀ ਬੋਲਦਾ ਹੈ ਪਰੰਤੂ ਸਭਿਅਤਾ ਦੇ ਵਿਕਾਸ ਨਾਲ ਉਹ ਆਪਣੀਆਂ ਸੱਭਿਆਚਾਰਕ ਸਿਰਜਣਾਵਾਂ ਰਾਹੀਂ ਬੁਨਿਆਦੀ ਪ੍ਰਵਿਰਤੀਆਂ ਨੂੰ ਬੌਧਿਕਤਾ ਦੇ ਅਧੀਨ ਨਿਯੰਤਰਿਤ ਕਰਨਾ ਸ਼ੁਰੂ ਕਰ ਦਿੰਦਾ ਹੈ। ਸੋ ਸਭਿਅਤਾ ਦੇ ਵਿਕਾਸ ਨਾਲ ਦਿਮਾਗ਼ ਦੀ ਵਰਤੋਂ ਵਧੇਰੇ ਹੋਣ ਲੱਗਦੀ ਹੈ, ਭਾਵ ਵਿਚਾਰ ਪ੍ਰਧਾਨ ਹੋਣ ਲੱਗਦੇ ਹਨ। ਇਸ ਤੋਂ ਇਹ ਸਿੱਟਾ ਤਾਂ ਨਹੀਂ ਕੱਢਿਆ ਜਾ ਸਕਦਾ ਕਿ ਕਵਿਤਾ ਕੇਵਲ ਭਾਵ ਪਰਧਾਨ ਅਤੇ ਵਾਰਤਕ ਕੇਵਲ ਵਿਚਾਰ ਪਰਧਾਨ ਹੁੰਦੀ ਹੈ ਪਰ ਇਕ ਗੱਲ ਪੱਕੀ ਹੈ ਕਿ ਅਨੁਪਾਤਕ ਤੌਰ ਤੇ ਕਵਿਤਾ ਵਿਚ ਭਾਵਾਂ ਦੀ ਮਾਤਰਾ ਵਧੇਰੇ ਹੁੰਦੀ ਹੈ ਜਦੋਂ ਕਿ ਵਾਰਤਕ ਵਿਚ ਵਿਚਾਰਾਂ ਦੀ ਪੇਸ਼ਕਾਰੀ ਵਧੇਰੇ ਹੁੰਦੀ ਹੈ। ਮਨੁੱਖ ਆਮ ਬੋਲਚਾਲ ਤਾਂ ਮੁੱਢ ਵਿਚ ਵੀ ਵਾਰਤਕ ਅੰਦਰ ਹੀ ਕਰਦਾ ਹੋਵੇਗਾ ਪਰ ਕਲਾਤਮਿਕ ਸਿਰਜਣਾ ਪਹਿਲਾਂ ਪਹਿਲ ਕਵਿਤਾ ਵਿਚ ਹੀ ਹੋਈ ਹੋਵੇਗੀ।

ਉਪਰੋਕਤ ਪੈਰ੍ਹਾ ਦੇ ਅਧਾਰ ਤੇ ਉੱਤਰ ਦਿਓ:

ਮਨੁੱਖ ਨੇ ਰੋਜ਼ਾਨਾ ਜੀਵਨ ਵਿਚ ਘਰੇਲੂ ਪੱਧਰ 'ਤੇ ਗੱਲਬਾਤ ਲਈ ਸਭ ਤੋਂ ਪਹਿਲਾਂ ਕਿਹੜੇ ਸਾਹਿਤਕ ਰੂਪ ਦੀ ਵਰਤੋਂ ਕੀਤੀ ਹੋਵੇਗੀ ?

- (a) ਕਵਿਤਾ
- (b) ਵਾਰਤਕ
- (c) ਕਵਿਤਾ ਅਤੇ ਵਾਰਤਕ ਦੋਨੋਂ
- (d) ਬੋਲੀਆਂ



113.	'ਛਾਹ	ਵੇਲਾ' ਕਿਹੜੇ ਸਮੇਂ ਨੂੰ ਕਿਹਾ ਜਾਂਦਾ ਹੈ ?
	(a)	ਸ਼ਾਮ ਦੇ ਸਮੇਂ ਨੂੰ
	(b)	ਦੁਪਹਿਰ ਦੇ ਸਮੇਂ ਨੂੰ
	(c)	ਰਾਤ ਦੇ ਸਮੇਂ ਨੂੰ
	(d)	ਸਵੇਰ ਦੇ ਸਮੇਂ ਨੂੰ
114.	ਹੇਠ ਿ	ਲਖੇ ਵਾਕ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਸਹੀ ਸ਼ਬਦ ਜੁੱਟ ਚੁਣੋ :
		ਦੀ ਵੰਡ ਨੇ ਦੋਵਾਂ ਭਰਾਵਾਂ ਨੂੰ ਪਹੁੰਚਾ ਦਿੱਤਾ।
	(a)	ਜੈਦਾਦ, ਕਚਹਿਰੀ
		ਜਾਇਦਾਦ, ਕਚੈਹਰੀ
	(c)	ਜੈਦਾਤ, ਕਚਹਰੀ
	(d)	ਜਾਇਦਾਦ, ਕਚਹਿਰੀ
115.	ਹੇਠ ਰਿ	ਲਖਿਆਂ ਵਿੱਚੋਂ ਸਹੀ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਵਾਲ <mark>ਾ ਵਾਕ ਚੁਣ</mark> ੋ :
	(a)	ਚੰਗਾ ਹੁਣ ਅਸੀ ਚੱਲਦੇ ਹਾ।
	(b)	ਚੰਗਾ, ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।
	(c)	ਚੰਗਾ ! ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।
	(d)	ਚੰਗਾ; ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾ।
116.	Chry	vsanthemum ਫੁੱਲ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਨਾਂ ਕੀ ਹੈ ?
	(a)	ਚਮੇਲੀ
	(b)	ਨਰਗਸ
	(c)	ਗੁਲਦਾਊਦੀ
	(d)	ਗੁਲਨਾਰ

- 117. ਪੱਛਮੀ ਪੰਜਾਬ ਵਿੱਚ ਸਾਂਦਲਬਾਰ ਦੀਆਂ ਔਰਤਾਂ ਦੇ ਨਾਚ ਦਾ ਨਾਂ ਹੈ -
  - (a) ਗਿੱਧਾ
  - (b) ਸੰਮੀ
  - (c) ਮਾਹੀਆ
  - (d) ਮਲਵਈ ਗਿੱਧਾ



118. 'ਭੁੱਖੇ ਦੀ ਧੀ ਰੱਜੀ ....... ਉਡਾਉਣ ਲੱਗੀ' ਅਖਾਣ ਵਿੱਚ ਖਾਲੀ ਥਾਂ ਤੇ ਸਹੀ ਸ਼ਬਦ ਭਰੋ।

- (a) ਧਨ
- (b) ਮੌਜ
- (c) <u>국</u>국
- (d) ਖੇਹ

119. 'ਆਪ ਅੱਜ-ਕਲ੍ਹ ਕੀ ਕਰਦੇ ਹੋ ?' - ਕਿਹੜਾ ਪੁਰਖ ਹੈ ?

- (a) ਪਹਿਲਾ ਪੂਰਖ
- (b) ਦੂਜਾ ਪੂਰਖ
- (c) ਤੀਜਾ ਪੁਰਖ
- (d) ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਨਹੀਂ

120. ਸਮਾਨਾਰਥਕ ਸ਼ਬਦਾ<mark>ਂ ਦੀ</mark> ਸੂਚੀ ਮਿਲਾਓ :

# ਸੂਚੀ I

# ਸੂਚੀ II

- A. ਤਹਿਜ਼ੀਬ
- i. ਦੋਸਤੀ
- B. ਗੌਂ
- ii. ਜਿਸਮ
- C. ਜੱਸਾ
- iii. ਸੱਭਿਅਤਾ
- D. ਸੱਜਣਤਾ
- iv. ਮਤਲਬ

ਉਪਰੋਕਤ ਦਾ ਸਹੀ ਮਿਲਾਨ ਕਰੋ :

- (a) A-iii, B-iv, C-i, D-ii
- (b) A-iii, B-iv, C-ii, D-i
- (c) A-iii, B-ii, C-iv, D-i
- (d) A-ii, B-iii, C-iv, D-i

June-2024

(A - 26)





### SPACE FOR ROUGH WORK







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