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

Booklet Sr. No.

Question
Booklet Set

Candidate's Name

Father's Name

Date of Birth:

D D M M Y Y Y Y

OMR Response Sheet No.

Roll No.

Candidate's Signature:

[Total Questions: 120]

INSTRUCTIONS

[Time Allowed: 2 Hours]

- 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.

(Please sign in the box)

- 6. The candidates, <u>when allowed to open</u> the question paper booklet, <u>must first check the entire booklet</u> 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. question remains unattempted, there will be no penalty for that question.
- 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.

June-2024 (A – 1)

1.	Consider the following statements:									
	1.	'Painted Bug' causes damage to Mustard								
	2.	Ascochyta blight is a fungal disease of Chickpea								
	3.	Ins	sect 'Fall army worm' generally prefers	s to a	ttack the Maize crop					
	4.	'BI	L-43' and 'BL-42' are the varieties of B	arley						
	Cho	Choose the correct statements.								
	(a)	1, 2	2 and 3 only							
	(b)	2, 3	3 and 4 only							
	(c)	1, 3	3 and 4 only							
	(d)	1, 2	2 and 4 only							
2.	Fill		ne blanks in List I from List II (Choose s t I	e the most appropriate option) List II						
	1.		e optimum seed rate for sowing one ctare of pearl millet is : X	P.	70-80 Kg					
	2.	The	e optimum seed rate for timely sown	Q.	7-8 Kg					
		nei	Idpea crop (for 1 hectare) is :Y_	R.	40-50 Kg					
				S.	4-5 Kg					
	X aı	nd Y	are respectively:							
	Cod	le :								
		X	Y							
	(a)	P	R							
	(b)	Q	S							
	(c)	R	Q							
	(d)	S	P							
		,		1						
3.			er of electro-chemical changes happen gence or flooding. Which one of the fol		- *					
		_	chemical changes in the submerged pa							
	(a)		crease in pH of the acid soil	•						
	(b)		crease in pH of the sodic soil							
			-							

(c)

(d)

Increase in redox potential of the soil

Decrease in redox potential of the soil

4.		ose the correct statements:	Б ,					
	1.	In honey bee colony, the worker bee is						
	2. 3.	In honey bee colony, the worker bee is Insects with single pair of membra halters belong to Diptera order.		wings and hind pair modified into				
	4.		nous	wings and hind pair modified into				
	(a) (c)	1 and 3 only 2 and 4 only	(b) (d)	2 and 3 only 1 and 4 only				
5.		bitory activity of one plant species com oots on the seed germination or growth Antibiosis		,				
	(c)	Allelopathy	(d)	Negativism				
6.		process of breaking, scratching or med 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	by 30	0 kg diammonium phosphate (DAP)?				
	(a)	45 kg	(b)	54 kg				
	(c)	90 kg	(d)	120 kg				
8.	Whi	ch of the following expressions is used	to cal	culate real value of seed ?				
	(a)	[Purity (%) × Germination (%)] / 100						
	(b)	[Purity (%) \times (100)] / Germination (%)						
	(c)	[Germination (%) \times (100)] / Purity (%)						
	(d)	[Purity (%) × Germination (%)] × 100						
9.	Cons	sider the following statements :						
••	1.	India is largest producer of Potassium	ferti	lizer in the world.				
	2.	Blind hoeing is possible in Sugarcane.		and in the World				
	3. When primary tillage is completely avoided and secondary tillage is restricted to							
	seedbed preparation in the row zone only, it is known as Zero tillage.							
	Whi	ch of these statements are incorrect?		<u> </u>				
	(a)	1 only	(b)	3 only				
	(c)	1 and 2 only	(d)	2 and 3 only				
10.	Acid	soils are generally found and formed i	n:					
	(a)	Humid regions with high rainfall						
	(b) Arid regions with low rainfall							
	(c)	Semi-arid regions with less rainfall						
	(d)	Either (b) or (c)						
Lee	. 000	4						
June	-202	4 (A – 3)					

11.		ch one of the following groups of essential plant nutrients falls in the 'non-mineral rients' category?
	(a)	Primary nutrients
	(b)	Secondary nutrients
	(c)	Micronutrients
	(d)	C, H and O
12.	Con	sider 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
	Cho	ose the correct statement(s):
	(a)	1 only
	(b)	1 and 2 only
	(c)	1 and 3 only
	(d)	2 and 3 only
13.	Cho	ose 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.		Punjab, 'Rice (short duration) – Vegetable Pea – Wheat – Mungbean' rotation is an mple of :
	(a)	One-year rotation
	(b)	One and half-year rotation
	(c)	Half-year rotation
	(d)	Two-year rotation
15.		d out the quantity of atrazine herbicide WP containing 50% active ingredient (a.i.) e 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
June	e-202	(A - 4)

16.	Which one of the following nitrogenous fertilizers is not included in the Fertilizer Control Order (FCO) of India ?									
	(a) Ammonium sulphate									
	(b) Calcium Ammonium Nitrate (c) Ammonium nitrate									
	(c) Ammonium nitrate (d) All of the above									
	(d)	All of the above								
17.	Base	ed upon morphological features, weeds	have	been classified into grassy, sedges and						
	broadleaf groups. The sedges belong to the plant family :									
	(a) Poaceae (b) Asteraceae									
	(b) Asteraceae									
	(c) Graminae									
	(d)	Cyperaceae								
18.	Rice	e weeds <i>Echinochloa crus-galli</i> and <i>E</i>	chind	ochloa colona belong to the following						
	grou	ip of plants :								
	(a)	CAM plants	(b)	C_4 plants						
	(c)	C_3 plants	(d)	Dicot plants						
19.	If or	n a 20-acre farm, crops are raised on 1	5 acre	es in kharif (rainy season), 15 acres in						
	rabi	(winter season) and 20 acres in zaid (s	umm	er) during one year, what would be the						
	crop	ping 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 cl	hanne	el						
	(d)	Measure the water flow in the channel	el							

21.	Which one of the following is the correct pair of sulphur 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	osting	g 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 primarily caused by <i>Gleocercospora sorgh</i> i.							
	(c)	Both (a) and (b)							
	(d)	Neither (a) nor (b)							
24.	The optimum sowing time of chickpea in the North India under the irrigated condition is:								
	(a)	First fortnight of October							
	(b)	Second fortnight of October							
	(c)	First fortnight of December							
	(d)	Second fortnight of November							
25.	"LL	1373" and "LL 931" are the varieties of	f:						
	(a)	Kabuli chickpea							
	(b)	Desi chickpea							
	(c)	Linseed							
	(d)	Lentil							

(A - 6)

26.	Cons	sider the following statements about Soybean and choose the correct option:					
	(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.		'sterility mosaic' disease of pigeonpea is caused by X; and, of Sand, Peat and Clay, Y has highest Soil bulk density. Identify X and Y pectively):					
	(a)	Virus and clay					
	(b)	Bacteria and clay					
	(c)	Nematode and peat					
	(d)	Virus and sand					
	(u)	vii us and sand					
28.		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.		nola" refers to the cultivars of Oilseed rape in Canada. The seeds of "Canola" ald contain:					
	(a)	<20% erucic acid (b) >20% erucic acid					
	(c)	>2% erucic acid (d) <2% erucic acid					
30.		dery mildew of pea and Dropsy disease in human beings may respectively be sed 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					
June	-202	4 (A-7)					

31.	Consider the following statements and choose the correct option :									
	1.	1. Uranyl acetate stain is used in electron microscopy								
	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 lea	af-like structures					
	(a)	1, 2 and 4 only (k)	1, 3	3 and 4 only					
	(c)	1 and 3 only	l)	2 o	nly					
32.	Fill	in the blanks choosing suitable entities from	om	the	options given below:					
	1.									
	2.	-								
	X aı	nd Y are (respecitvely):								
	(a)	Tobacco and Frateuria aurantia								
	(b)	Rice and Azotobacter chroococcum								
	(c)	${\bf Coconut\ and}\ Azospirillum\ lip of erum$								
	(d)	Maize and Piriformospora indica								
33.	Choose the correct statement									
	(a)	Of the pigeon pea, soybean, green gram and castor, castor contains the highest oil content								
	(b)									
	(c)	Both (a) and (b)								
	(d)	None of the above								
34.	Match the following entities in List I from entities of List II:									
		List I			List II					
	1.	Insecticide Act was passed in the year	F	P.	1968					
	2.	In India, the MRL is fixed by	6	Q .	1998					
			F	₹.	CODEX					
					FSSAI					
			T		ICAR					
		_								
	Cod									
	()	1 2								
	(a)	P R								
	(b)	P S								
	(c) (d)	Q R Q T								
	(u)	d T								

35.	5. Safflower in India is usually grown during :					
	(a)	Rabi season				
	(b)	Kharif season				
	(c)	Zaid season				
	(d)	Rabi, kharif and zaid seasons				
36.	Com	pared to popular rice varieties, 'DRR	Dhan	48' and 'DRR Dhan 49' contain higher		
	level	s of:				
	(a)	Iron				
	(b)	Zinc				
	(c)	Boron				
	(d)	Molybdenum				
37.	1.	High yielding dwarf varieties of whea	at wer	e developed by X		
	2.	The term 'Evergreen Revolution' has	been g	given by Y		
	Iden	tify X and Y (respectively):				
	(a)	Dr. M. S. Swaminathan and Dr. R. S	. Paro	oda		
	(b)	Dr. R. S. Paroda and C. T. Patel				
	(c)	Dr. N. E. Borlaug and Dr. M. S. Swar	ninatl	nan		
	(d)	Dr. B. P. Pal and Dr. R. S. Paroda				
38. The term 'cultivar' is used to designate a new crop type intentionally released for cultivation. Who has been credited with coining of the term 'c year 1923?						
	(a)	L.H. Bailey	(b)	M.S. Swaminathan		
	(c)	John Ray	(d)	A.P. de Candolle		
39.	"Tun	ngro virus" of rice is usually transmitte	ed 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%		
June	ne-2024 (A – 9)					

41. The 'PGS', with respect to the organic certification, stands for :									
	(a)	Pesticides Governance Scheme	(b)	Paramparagat Gram Scheme					
	(c)	Participatory Governance Service	(d)	Participatory Guarantee System					
42.	The	most common colour of the cultivated	groun	dnut flowers is :					
	(a)	Yellow	(b)	Pink					
	(c)	Blue	(d)	Red					
43.	Part	ticles ranging from 0.01 – 0.03 mm dia	neter	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)					
45.	The	theoretical yield of parent acid from an	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 of	crop	rotation?					
	1. To reduce the pest and disease incidence.								
	2.	To maintain the fertility status of the	soils						
	3.	To keep the weeds under control							
	(a)	1 only	(b)	2 only					
	(c)	1 and 3 only	(d)	1, 2 and 3					
47.	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.	1. Phenylmercuric acetate (PMA) is a chemical used in agriculture crops in order to increase transpiration.							
	2.	Enforced dormancy is associated with	deep	er placement of seeds.					
	(a)	1 only	(b)	2 only					
	(c)	Both 1 and 2	(d)	Neither 1 nor 2					

	(a)	a) Commelina benghalensis is a monocot weed unlike Crotalaria verrucosa							
	(b)	Crotalaria verrucosa is a monocot weed unlike Commelina benghalensis							
	(c)	Both Commelina benghalensis and Crotalaria verrucosa are monocot weeds							
	(d)	Neither Commelina benghalensis nor Crotalaria verrucosa are monocot weeds							
50.	Choose the correct option:								
	(a)) Hay fever is commonly caused by Ambrosia							
	(b)	Weed introduction from some	other part of	the world is called Antagonism					
	(c)	Both (a) and (b)							
	(d)	None of the above							
51.	Gold	len rice is a rich source of							
	(a)	Vitamin A	(b)	Vitamin B					
	(c)	Ascorbic acid	(d)	Vitamin K					
52.	Consider the following statements and choose the correct option:								
	1.	CH_4 is released from paddy fields.							
	2.	Pearlmillet can be transplant	æd.						
	3.	Scientific name of Kodo millet is <i>Paspalum scrobiculatum</i>							
	(a)	1 only	(b)	1 and 2 only					
	(c)	2 and 3 only	(d)	1, 2 and 3					
53.	Sweet corn is:								
	(a)	Zea mays indentata							
	(b)	Zea mays indurata							
	(c)	Zea mays saccharata							
	(d)	Zea mays amylacea							
54.	The oil content in groundnut seeds is about %								
	(a)	45	(b)	25					
	(c)	15	(d)	05					
55.	The	fruit of rapeseed and mustard	is known as						
	(a)	Pod	(b)	Caryopsis					
	(c)	Siliqua	(d)	Dutum					
June	-202	4	(A - 11)						

49. Choose the most suitable option :

56.	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			
57 .	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			
58.	The	force of attraction that binds the molecules of the same kind is:			
	(a)	Adhesion			
	(b)	Matric force			
	(c)	Cohesion			
	(d)	Interface			
59.	The 'Leaf colour chart' (LCC) is used for judging the amount of nitrogen application to the 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			

(A-12)

		List I								List II	
	1.	Author of the famous book 'Species Plantarum'								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 timeCode:							R.	C.M. Donald		
		1	2	3							
	(a)	P	\mathbf{Q}	R							
	(b)	\mathbf{R}	\mathbf{Q}	P							
	(c)	P	\mathbf{R}	Q							
	(d)	R	P	Q							
62.	Co	Consider the following statements:									
	1.	The	The wheat grain protein is called 'X'.								
	2.	Initi	ally, th	ne potass	sium defic	ciency syn	pton	ns in barley ap _l	pear	on 'Y'.	
	Ide	Identify correct pair of X and Y (respectively)									
	(a)	Zein	and U	pper lea	ves						
	(b)	Glut	en and	Upper :	leaves						
	(c)	Glyc	inin ar	nd Midd	le leaves						
	(d)	Glut	en and	Lower	leaves						
63.	If 8	30 maiz	ze plan	ts are co	ounted in	5 metre o	of row	length and th	ie ro	w spacing is 60 cm,	
	what will be the population density of maize?										
	(a)	50,0	00 plar	nts/ hect	are		(b)	75,000 plants.	/hect	care	
	(c)	1,00	,000 pl	ants/hed	tare		(d)	1,25,000 plan	ts/he	ectare	
64.	Flo	oding l	kills th	e weeds	by exclud	ling the _		from the	eir e	nvironment.	
	(a)	Air					(b)	Water			
	(c)	Nut	rients				(d)	Microbes			
65.	Los	ss of ho	rizonta	al resista	ance to a j	plant dise	ase d	uring a breedir	ng cy	vcle is	
	(a)	Boor	n and	bust cyc	le						
	(b)	Vertifolia effect									
	(c)	Qua	ntitati	ve resist	ance						
	(d)	Path	ovar								
June	-20	24				(A – 13	3)				

Match the following:

61.

66.	Soil	s with	pH < 8	3.5, E	C > 4 dS	m^{-1}	and ESP	less	than	15 are o	lesignated	as		
	(a)	Salin	e soils					(b)	Alka	li soils				
	(c)	Black	k alkal	i soils	}			(d)	Sodi	c soils				
67.	Pick	ck the correct statement :												
	(a)	One	standa	rd atı	nospher	e is e	qual to 1	01,3	25 hP	a				
	(b)	One	standa	rd atı	mospher	e is e	qual to 1	01.3	25 hP	a				
	(c)	Gene	rally, o	dry ac	liabatic	lapse	rate per	100	m asc	ent is 9	.8°C			
	(d)	Gene	rally, o	dry ac	liabatic	lapse	rate per	100	m aso	ent is 0	.98°C			
68.	Con	Consider the following statements and choose the incorrect ones:												
	1.	Wide	ly spac	ced is	obars re	prese	nt steep	chai	nge in	pressur	e			
	2.	Cum light		nbus	clouds	are	associa	ted	with	heavy	rainfall,	thunder	and	
	3.	India receives less than normal rainfall under the influence of La Nina.												
	(a)	2 onl	2 only (b)				3 on	3 only						
	(c)	1 and	12 only	y				(d)	1 an	d 3 only				
69.	Match the following entities in list I with corresponding entries in List II:													
		List I							List II					
	1.	Father of modern organic agriculture						P.	P. Sir Albert Howard					
	2.	Fath	er of Ir	ndian	Plant Pa	athol	ogy		Q.	e. E.J. Butler				
	3.	The f	ather	of exte	ension ir	n a gl	obal cont	ext	R.	R. B.B. Mundkur				
									S.	S. Paul Leagans				
									T.	Sigmur	nd Freud			
	Cod	le :												
		1	2	3										
	(a)	R	Q	P										
	(b)	P	Q	\mathbf{S}										
	(c)	Q	R	\mathbf{S}										
	(d)	Q	R	Τ										
70.				aic of	okra is p	orima	rily tran							
	(a)	Aphi	d					(b)	Whit	White fly				
	(c)	Leaf	hopper	r				(d)	Nem	atode				

(A - 14)

71.	Choo	ose the correct match:				
	(a)	Mancozeb and Thiram	:	Systemic fungi	cic	les
	(b)	Glyphosate	:	Selective conta	ct	herbicide
	(c)	Carbendazim	:	Systemic fungi	cic	le
	(d)	Glyphosate	:	Nonselective co	ont	tact herbicide
72.	Fern	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
73.	Crop	rotations are effective i	in (controlling		
	(a)	Crop bound weeds but	no	t crop associated	d w	veeds
	(b)	Both crop bound weeds	ar	nd crop associate	ed	weeds
	(c)	Crop associated weeds	bu	t not crop bound	d w	veeds
	(d)	Neither crop bound wee	eds	s nor crop associ	at	ed weeds
74.	The	bio-agent useful for mar	ıag	ging water hyaci	int	h is
	(a)	Bactra sp.		(b))	Cyrtobagous salviniae
	(c)	Neochetina bruchi		(d))	Dactylopius sp.
75.	Choo	ose the correct options :				
	1.	First herbicide-resistar	ıt v	weed in the worl	ld:	$Amaranthus\ sp.$
	2.	First herbicide-resistar	nt v	weed in the worl	ld:	Senecio vulgaris
	3.	Zea mays ceratina is flo	our	corn		
	4.	Zea mays ceratina is w	ax	y corn		
	(a)	1 and 3 only		(b))	2 and 3 only
	(c)	1 and 4 only		(d))	2 and 4 only
76.	Cons	sider the following state:	me	ents and choose	the	e correct options :
	1.	Leaf reddening in cotto	n i	is due to deficier	ncy	of Mg.
	2.	Leaf reddening in cotto				of Zn and Ca.
	3.	Diamond back moth is	_			
	4.	Diamond back moth is	a p	oest of pulses an	ıd	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						
78.		wo chemicals, A and B have LD ₅₀								
		pectively, 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.	Which of the following is the most suitable combination related to the requirements for soil solarisation?									
	(a)									
	(b)	Winter season; black polythene; dry s	soil							
	(c)	Summer season; transparent polythe	ne; m	oist soil						
	(d)	Summer season; transparent polythe	ne; dr	y soil						
80.	Amo	ong the following, which group of eleme	ents is	s 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	ch among the following is known as th	e "Qu	een of Oilseeds" ?						
	(a)	Groundnut	(b)	Sesame						
	(c)	Sunflower	(d)	Mustard						
82.	Whi	ch type of earthworm is useful for verr	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.	The first KVK in India was establish	ed in 1	1974 at Y.						
	Iden	tify X and Y.								
	(a)	Karnal and Puducherry respectively								
	(b)	Bathinda and Ahmedabad respective	ly							
	(c)	Hyderabad and Delhi respectively								
	(d)	Jaipur and Kolkata respectively								

(A - 16)

	(a)	The largest source of irrig	gation in India is c	eanals							
	(b)	Sunflower is a cross pollinated crop									
	(c)	Deep ploughing is recommended twice for every season									
	(d)	World Wetlands Day is co	elebrated on 21^{st} N	March							
85.	Among the following, which crop has the highest water requirement in general?										
	(a)	Wheat	(b)	Cotton							
	(c)	Sugarcane	(d)	Rye							
86.	Aut	Author of the book 'The Road Back to Nature : Regaining the Paradise Lost' is									
	(a)	Rachel Carlson									
	(b)	Subhash Palekar									
	(c)	Yoshikazu Kawaguchi									
	(d)	Masanobu Fukuoka									
87.		The process of dissolution and removal of sesquioxides from A horizon and their deposition in B horizon is called:									
	(a)	Podzolisation									
	(b)	Laterisation									
	(c)	Humification									
	(d)	Calcification									
88.	The	The phosphorus fixing capacity of clay minerals may be found in order :									
	(a)	Vermiculite > Illite > Mo	ntmorillonite > Mu	ıscovite							
	(b)	Montmorillonite > Vermiculite > Kaolinite > Muscovite									
	(c)	Muscovite > Illite > Montmorillonite > Vermiculite									
	(d)	Illite > Montmorillonite > Muscovite > Vermiculite									
89.	The	organic matter content (%	o) of soil with 1.3 %	organic carbon is:							
	(a)	2.60	(b)	1.95							
	(c)	0.65	(d)	2.24							
90.	Amo	ong the following, which cr	op yields leaf fibre	·:							
	(a)	Jute	(b)	Cotton							
	(c)	Agave	(d)	Mesta							
June	-202	24	(A - 17)								

84. Pick the correct statement :

91.	Iden	tify the	fauna	from t	he following informatior	ı :					
	Natu	ıre		: ;	Scavengers						
	Com	mon s	pecies	: '	White rumped, Slender-	Bille	d, Red-headed				
	Com	mon tl	nreats	:	Use of diclofenac for veterinary purposes						
	_	act of d opulati			Increased risk of spread observance of last rites b		bies and ill impact on rsis in 'Tower of Silence'.				
	(a)	Pygmy	hog								
	(b)	Forest	Owlet								
	(c)	Sandp	iper								
	(d)	Vultur	·e								
92.		respec		nieven	nents of Indians in the f	ield o	f Science and Technology, match				
		List I					List II				
	1.	Inelast	ic theo	ry of s	cattering	P.	S. Chandrasekhar				
	2.	Work o	n stell	ar evol	lution and white dwarfs	Q.	C.V. Raman				
	3.			_	ntum mechanics and	R.	S.N. Bose				
	4.	-	ch on (Cresco	e-Einstein Condensate graph and aves	S.	J.C. Bose				
	Cod	e :									
		1	2	3	4						
	(a)	P	Q	R	S						
	(b)	Q	P	S	R						
	(c)	Q	P	R	S						
	(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)	LGBT				- =					
	(c)			_	ong to I ak Sabba and S	tata I	ogialaturaa				
					ons to Lok Sabha and S	iaie I	negistavut es				
	(d)	Keserv	ation b	asea c	on caste						

(A - 18)

94.	_	Beginning with Dwarka, Gujarat, if you travel to Jagannath Temple, Puri along the coast, 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 s 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 as and means advances and all moneys received by that government in repayment can shall form:						
	(a)	Consolidated Fund of India						
	(b)	Contingency Fund of India						
	(c)	Public Account of India						
	(d)	Current Account of India						
97.		ich 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						
June	e-202	24 (A – 19)						

	(c)	Utopian Politics	(d)	Fabian Politics								
99.	Arra	rrange choronologically, the following events of modern history of Punjab:										
	1.	Rajiv-Longowal accord										
	2.	Creation of Ropar division as one o	f the five	e divisions of Punjab								
	3.	Trifurcation of Punjab including co	nstitutio	on of separate state of Haryana								
	4.	Guru Ka Bagh Morcha										
	(a)	4, 2, 1, 3	(b)	4, 3, 1, 2								
	(c)	3, 4, 1, 2	(d)	3, 4, 2, 1								
100.	Wha	at is the minimum number of dist	tricts th	at you must pass through, to reach								
			t Singh	museum at Khatkar Kalan (including								
		origin and destination districts)?	()	(1) 7								
	(a)	4 (b) 5	(c)	6 (d) 7								
101.			_	at Punjab Police Academy. All these								
			ree drii	aks out of tea, coffee and juice. It is								
	I.	wn that:	alz too	action and juice are in Arithmetic								
	1.	Progression in that order.	ik tea,	coffee and juice are in Arithmetic								
	II.	Number of candidates who drink juice are in Arithmetic Progression		coffee, tea and juice, and coffee and order.								
	III.	Number of candidates who drink Arithmetic Progression in that orde	-	ea, only coffee and only juice are in								
	IV.	Number of candidates who drink candidates who drink only two drink	=	ne drink is two times the number of								
	V.	Number of candidates who drink candidates who drink all the three	•	o drinks is nine times the number of								
	How	w many candidates drink coffee ?										
	(a)	130	(b)	110								
	(c)	60	(d)	70								
June	-202	24 (A-	- 20)									

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

98.

(a)

personal belief?

Orwellian 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.

37	Areas of Expertise in MBA							
Years	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

		eases his speed by 60% and finishes the work in 26 days. Find after how many did he increase his speed?			
	(a)	8			
	(b)	9			
	(c)	10			
	(d)	11			
108.	just grou touc	conut tree is taller than a pine tree by 6 meters. A woodcutter starts cutting the nut tree from 12 m above the ground so that after the coconut tree falls, its top touches the bottom of the pine tree. Had he cut the pine tree from 8 m above the nd, the top of the pine tree would have fallen in a way that its top would just have hed 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.		many two-digit numbers are there such that the product of their digits is a ect square greater than 1? 18 16 14 12			
110.	O. Five friends Ram, Rakesh, Ramesh, Rohit and Rupesh are sitting on a round tab facing the center. Rakesh is sitting to the left of Ram. Rohit is sitting to the right 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			
June	-202	4 (A – 23)			

107. Paresh can finish a certain piece of work in 35 days at a stretch. But after few days, he

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

 (a) ਘੋੜੀ

 (b) ਬੋਲੀ
 - (d) ਸੁਹਾਗ

(c)

ਲੋਰੀ

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 ਰਿ	ਲਖੇ ਵਾਕ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਸਹੀ ਸ਼ਬਦ ਜੁੱਟ ਚੁਣੋ :
		ਦੀ ਵੰਡ ਨੇ ਦੋਵਾਂ ਭਰਾਵਾਂ ਨੂੰ ਪਹੁੰਚਾ ਦਿੱਤਾ।
	(a)	ਜੈਦਾਦ, ਕਚਹਿਰੀ
	(b)	ਜਾਇਦਾਦ, ਕਚੈਹਰੀ
	(c)	ਜੈਦਾਤ, ਕਚਹਰੀ
	(d)	ਜਾਇਦਾਦ, ਕਚਹਿਰੀ
115.	ਹੇਠ ਰਿ	ਲਖਿਆਂ ਵਿੱਚੋਂ ਸਹੀ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਵਾਲਾ ਵਾਕ ਚੁਣੋ :
	(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.		vsanthemum ਫੁੱਲ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਨਾਂ ਕੀ ਹੈ ?
	(a)	ਚਮੇਲੀ
	(b)	ਨਰਗਸ
	(c)	ਗੁਲਦਾਊਦੀ
	(d)	ਗੁਲਨਾਰ
	, <u>~</u> , e	} , °
117.		ੇ ਪੰਜਾਬ ਵਿੱਚ ਸਾਂਦਲਬਾਰ ਦੀਆਂ ਔਰਤਾਂ ਦੇ ਨਾਚ ਦਾ ਨਾਂ ਹੈ -
	(a)	विॉया • ०
	` ′	ਸੰਮੀ
		ਮਾਹੀਆ
	(d)	ਮਲਵਈ ਗਿੱਧਾ

	(a)	ਧਨ									
	(b)	ਮੌਜ	ਮੌਜ								
	(c)	ਤੋਤੇ	ਤੋਤੇ ਤੋਤੇ								
	(d)	ਖੇਹ									
119.	119. 'ਆਪ ਅੱਜ-ਕਲ੍ਹ ਕੀ ਕਰਦੇ ਹੋ ?' - ਕਿਹੜਾ ਪੁਰਖ ਹੈ ?										
	(a)	ਪਹਿਲਾ ਪੁਰਖ	ਪਹਿਲਾ ਪੁਰਖ								
	(b)	ਦੂਜਾ ਪੁਰਖ	ਦੂਜਾ ਪੁਰਖ								
	(c)	ਤੀਜਾ ਪੁਰਖ	ਤੀਜਾ ਪੁਰਖ								
	(d)	ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਨਹੀਂ									
120.	тн с	ਨਾਰਥਕ ਸ਼ਬਦਾ <u>ਂ</u>	ਦੀ ਸੂਚ	ਰੀ ਮਿਲਾਓ :							
		ਸੂਚੀ I		ਸੂਚੀ II							
	A.	ਤਹਿਜ਼ੀਬ	i.	ਦੋਸਤੀ							
	B.	ਗੌਂ	ii.	ਜਿਸਮ							
	C.	ਜੁੱਸਾ	iii.	ਸੱਭਿਅਤਾ							
	D.	ਸੱਜਣਤਾ	iv.	ਮਤਲਬ							
	ਉਪਰ	ਰੋਕਤ ਦਾ ਸਹੀ ਮਿਲਾਨ ਕਰੋ :									
	(a)	A-iii, B-iv,	C-i, I)-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	e-202	4		(A - 26)							

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

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

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

Booklet Sr. No.		Question Booklet Set
		D
Candidate's Name		В
Father's Name		
Date of Birth: D D M M Y Y Y Y		
OMR Response Sheet No.	Roll No	
Candidate's Signature : (Please sign in the box)		al Questions : 120] Allowed : 2 Hoursl

INSTRUCTIONS

- 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 Ink 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.

(Please sign in the box)

- 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 MOST APPROPRIATE 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. question remains unattempted, there will be no penalty for that question.
- 12. Use of Electronic/Manual Calculator is prohibited.
- 13. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

1.	Consider the following statements and choose the correct option:								
	1.	Uranyl acetate stain is used in electron microscopy							
	2.	Eti	ology is study of cause of disease						
	3.	Etiology is study of symptom of disease							
	4.	Ph	yllody is development of floral organ	ns int	to 1	eaf-like structures			
	(a)	1, 2	2 and 4 only	(b)	1,	3 and 4 only			
	(c)	1 a	nd 3 only	(d)	2	only			
2.	Fill in the blanks choosing suitable entities from the options given below:								
	1.	Muriate of potash is not recommended for X							
	2.	A bacterium capable of mobilising potassium is <u>Y</u>							
	X aı	X and Y are (respecitvely):							
	(a)	Tol	bacco and Frateuria aurantia						
	(b)	Ric	${ m ce}\ { m and}\ { m \it Azotobacter}\ { m \it chroococcum}$						
	(c)	Co	conut and Azospirillum lipoferum						
	(d)	Ma	aize and Piriformospora indica						
3.	Choose the correct statement								
	(a)	Of the pigeon pea, soybean, green gram and castor, castor contains the highest oil content							
	(b)	Of the groundnut, mustard, cotton and safflower, mustard contains maximum linoleic acid							
	(c)	Bo	th (a) and (b)						
	(d)	No	ne of the above						
4.	Match the following entities in List I from entities of List II:								
		List I				List II			
	1.	Ins	secticide Act was passed in the year	·	ο.	1968			
	2.	In	India, the MRL is fixed by	(Q .	1998			
				F	₹.	CODEX			
				S	S.	FSSAI			
					Γ.	ICAR			
	Cod	la .							
	Coc	1e:	2						
	(a)	P	z R						
	(b)	P	S						
	(c)	Q	R						
	(d)	Q Q	T						
	(u)	Y.	<u> </u>						

5. Safflower in India is usually grown during :									
	(a)	Rabi season							
	(b)	Kharif season							
	(c)	Zaid season							
	(d)	Rabi, kharif and zaid seasons							
6.	Compared to popular rice varieties, 'DRR Dhan 48' and 'DRR Dhan 49' contain higher								
	levels of:								
	(a)	Iron							
	(b)) Zinc							
	(c)	Boron							
	(d)	Molybdenum							
7.	1.	High yielding dwarf varieties of wheat were developed by X							
	2.	The term 'Evergreen Revolution' has been given by Y							
	Identify X and Y (respectively):								
	(a)	Dr. M. S. Swaminathan and Dr. R. S. Paroda							
	(b)	Dr. R. S. Paroda and C. T. Patel							
	(c)	Dr. N. E. Borlaug and Dr. M. S. Swaminathan							
	(d)	Dr. B. P. Pal and Dr. R. S. Paroda							
8. The term 'cultivar' is used to designate a new crop type intent released for cultivation. Who has been credited with coining of the year 1923?									
	(a)	L.H. Bailey	(b)	M.S. Swaminathan					
	(c)	John Ray	(d)	A.P. de Candolle					
9.	"Tur	ngro virus" of rice is usually transmit	ted by:						
	(a)	Gundhy bug	(b)	Gall midge					
	(c)	Army worm	(d)	Green leaf hopper					
10.		at would be the harvest index of rice 5 tonnes/ha?	if grain	yield is 3.5 tonnes/ha and straw yield					
	(a)	35%	(b)	45%					
	(c)	54%	(d)	65%					
June	e-202	4 (B-	- 3)						

11. The 'PGS', with respect to the organic certification, stands for :							
	(a)	Pesticides Governance Scheme	(b)	Paramparagat Gram Scheme			
	(c)	Participatory Governance Service	(d)	Participatory Guarantee System			
12.	The	most common colour of the cultivated g	roun	dnut flowers is :			
	(a)	Yellow	(b)	Pink			
	(c)	Blue	(d)	Red			
13.	Part	icles ranging from 0.01 – 0.03 mm dian	neter	would be considered as			
	(a)	Sand	(b)	Silt			
	(c)	Clay	(d)	Gravel			
14.	Rice	is basically a:					
	(a)	Short day plant	(b)	Long day plant			
	(c)	Day-neutral plant	(d)	Both (b) and (c)			
15.	The	theoretical yield of parent acid from an	activ	ve ingredient is termed as			
	(a)	Active equivalent	(b)	Technical ingredient			
	(c)	Acid equivalent	(d)	Acid value			
16. Which of the following is/are advantages of crop rotation?							
1. To reduce the pest and disease incidence.							
	2. To maintain the fertility status of the soils						
	3. To keep the weeds under control						
	(a)	1 only	(b)	2 only			
	(c)	1 and 3 only	(d)	1, 2 and 3			
17.	7. The Dapog method of raising rice nursery was introduced in India from						
	(a)	Burma	(b)	Japan			
	(c)	USA	(d)	Philippines			
18.	Which of the following statement(s) is/are correct?						
1. Phenylmercuric acetate (PMA) is a chemical used in agriculture cro increase transpiration.							
	2.	Enforced dormancy is associated with	deep	er placement of seeds.			
	(a)	1 only	(b)	2 only			
	(c)	Both 1 and 2	(d)	Neither 1 nor 2			

	(a) Commelina benghalensis is a monocot weed unlike Crotalaria verrucosa								
	(b)	Crotalaria verrucosa is a monocot weed unlike Commelina benghalensis							
	(c)	Both Commelina benghalensis and Crotalaria verrucosa are monocot weeds							
	(d)	Neither $Commelina\ benghalensis\ nor\ Crotalaria\ verrucosa\ are\ monocot\ weeds$							
20.	Choose the correct option:								
	(a)	Hay fever is commonly caused by Ambrosia							
	(b)	Weed introduction from some other part of the world is called Antagonism							
	(c)	Both (a) and (b)							
	(d)	None of the above							
21.	Golden rice is a rich source of								
	(a)	Vitamin A	(b)	Vitamin B					
	(c)	Ascorbic acid	(d)	Vitamin K					
22.	Con	Consider the following statements and choose the correct option:							
	1.	CH ₄ is released from paddy fields.							
	2.	Pearlmillet can be transplant	ed.						
	3.	Scientific name of Kodo millet is Paspalum scrobiculatum							
	(a)	1 only	(b)	1 and 2 only					
	(c)	2 and 3 only	(d)	1, 2 and 3					
23.	Sweet corn is:								
	(a)	Zea mays indentata							
	(b)	Zea mays indurata							
	(c)	Zea mays saccharata							
	(d)	Zea mays amylacea							
24.	The oil content in groundnut seeds is about %								
	(a)	45	(b)	25					
	(c)	15	(d)	05					
25.	The fruit of rapeseed and mustard is known as								
	(a)	Pod	(b)	Caryopsis					
	(c)	Siliqua	(d)	Dutum					
June	e-202	24	(B-5)						

19. Choose the most suitable option :

26.	Nipping 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		
27.	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		
28.	The	force of attraction that binds the molecules of the same kind is:		
	(a)	Adhesion		
	(b)	Matric force		
	(c)	Cohesion		
	(d)	Interface		
29.		'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		
30.	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		

(B-6)

31.	• Consider the following statements:						
	1. 'Painted Bug' causes damage to Mustard						
	2.	Asc	ochyta blight is a fungal disease of Ch	ickpe	a		
	3.	Ins	ect 'Fall army worm' generally prefers	to at	tack the Maize crop		
	4.	'BL	-43' and 'BL-42' are the varieties of Ba	arley			
	Cho	ose t	he 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				
32.	2. Fill in the blanks in List I from List II (Choose the most appropriate option List I List II						
	1.		e optimum seed rate for sowing one tare of pearl millet is : X	P.	70-80 Kg		
	2.	The	e optimum seed rate for timely sown dpea crop (for 1 hectare) is: _Y_	Q.	7-8 Kg		
				R.	40-50 Kg		
				S.	4-5 Kg		
	X ar	nd Y	are respectively :				
	Code:						
		X	Y				
	(a)	P	R				
	(b)	Q	S				
	(c)	R	Q				
	(d)	S	P				

- **33.** 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

34.	Choose the correct statements: 1. In honey bee colony, the worker bee is Fertile male.								
	2.	In honey bee colony, the worker bee is							
	3.		wings and hind pair modified into						
	4.		nous	wings and hind pair modified into					
	(a) (c)	1 and 3 only 2 and 4 only	(b) (d)	2 and 3 only 1 and 4 only					
35.		bitory activity of one plant species com oots on the seed germination or growth Antibiosis Allelopathy	-						
36.		The process of breaking, scratching or mechanical abrasion of the seed coat to make it permeable to water and gases is called as:							
	(a) (c)	Chopping Solidification	(b) (d)	Notching Scarification					
37.	Wha (a) (c)	at quantity of nitrogen can be supplied l 45 kg 90 kg	oy 30((b) (d)	0 kg diammonium phosphate (DAP) ? 54 kg 120 kg					
38.	Which of the following expressions is used to calculate real value of seed?								
	(a) [Purity (%) × Germination (%)] / 100								
	(b)	[Purity (%) \times (100)] / Germination (%)							
	(c)	[Germination (%) \times (100)] / Purity (%)							
	(d)	[Purity (%) × Germination (%)] × 100							
39.	Consider the following statements:								
	1. India is largest producer of Potassium fertilizer in the world.								
	2. Blind hoeing is possible in Sugarcane.								
	3. When primary tillage is completely avoided and secondary tillage is restricted to seedbed preparation in the row zone only, it is known as Zero tillage.								
	Which of these statements are incorrect?								
	(a)	1 only	(b)	3 only					
	(c)	1 and 2 only	(d)	2 and 3 only					
40.	Acid soils are generally found and formed in :								
	(a)	Humid regions with high rainfall							
	(b)	Arid regions with low rainfall							
	(c)	Semi-arid regions with less rainfall							
	(d)	Either (b) or (c)							

(B-8)

41.	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						
42.	Con	sider 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						
	Cho	ose the correct statement(s):						
	(a)	1 only						
	(b)	1 and 2 only						
	(c)	1 and 3 only						
	(d)	2 and 3 only						
43.	Cho	ose 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)						
44.		Punjab, 'Rice (short duration) – Vegetable Pea – Wheat – Mungbean' rotation is an mple of :						
	(a)	One-year rotation						
	(b)	One and half-year rotation						
	(c)	Half-year rotation						
	(d)	Two-year rotation						
45.		d out the quantity of atrazine herbicide WP containing 50% active ingredient (a.i.) e 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						
I								
June	e-202	(B – 9)						

46.		Which one of the following nitrogenous fertilizers is not included in the Fertilizer Control Order (FCO) of India ?							
	(a)	Ammonium sulphate							
	(b)	Calcium Ammonium Nitrate							
	(c)	Ammonium nitrate							
	(d)	All of the above							
47.	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							
48.		ice weeds $Echinochloa\ crus ext{-}galli\ ext{and}\ Echinochloa\ colona\ ext{belong}\ ext{to}\ ext{the}\ ext{following}$ roup of plants :							
	(a)	CAM plants	(b)	C_4 plants					
	(c)	C_3 plants	(d)	Dicot plants					
49.	If or	n a 20-acre farm, crops are raised on 1	5 acre	es in kharif (rainy season), 15 acres in					
	rabi	(winter season) and 20 acres in zaid (s	umm	er) during one year, what would be the					
	crop	pping intensity of the farm?							
	(a)	150%	(b)	250%					
	(c)	350%	(d)	500%					
50.	"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 cl	nanne	el					
	(d)	Measure the water flow in the channe	1						

51.	Whi	Which one of the following is the correct pair of sulphur containing amino acids ?								
	(a)	Cysteine and lysine								
	(b)	Cysteine and leucine								
	(c)	Cysteine and methionine								
	(d)	Cysteine and isoleucine								
52.	The	"Bangalore process" of anaerobic comp	osting	g was developed by :						
	(a)	Albert Howard	(b)	C.N. Acharya						
	(c)	P.N. Arya	(d)	Robert Howard						
53.	Cho	ose the most suitable option :								
	(a)	Sorghum grain is considered as Caryo	psis.							
	(b)	Ergot or sugary disease of sorghum is	prim	arily caused by <i>Gleocercospora sorgh</i> i.						
	(c)	Both (a) and (b)								
	(d)	Neither (a) nor (b)								
54.	The optimum sowing time of chickpea in the North India under the irrigated condition is:									
	(a)									
	(b)	Second fortnight of October								
	(c)	First fortnight of December								
	(d)	Second fortnight of November								
55.	"LL	"LL 1373" and "LL 931" are the varieties of :								
	(a)	Kabuli chickpea								
	(b)	Desi chickpea								
	(c)	Linseed								
	(d)	Lentil								

(B-11)

56.	Cons	onsider the following statements about Soybean and choose the correct option :									
	(a)	is considered to have originated in Brazil									
	(b)	is considered to have originated in USA									
	(c)	is a short day plant									
	(d)	It is a temperate C4 plant									
57.		'sterility mosaic' disease of pigeonpea is caused by X; and, of Sand, Peat and Clay, Y has highest Soil bulk density. Identify X and Y pectively):									
	(a)	Virus and clay									
	(b)	Bacteria and clay									
	(c)	Nematode and peat									
		-									
	(d)	Virus and sand									
58.		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									
59.		nola" refers to the cultivars of Oilseed rape in Canada. The seeds of "Canola" ald contain:									
	(a)	<20% erucic acid (b) >20% erucic acid									
	(c)	>2% erucic acid (d) <2% erucic acid									
60.		dery mildew of pea and Dropsy disease in human beings may respectively be sed 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									
June	-202	4 (B-12)									

61.	Identify the fauna from the following information:									
	Nati	ure		:	Scavengers					
	Con	Common species			White rumped, Slender-	Bille	d, Red-headed			
	Con	Common threats			Use of diclofenac for veterinary purposes					
	Impact of decline in population				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)	Sandp	oiper							
	(d)	Vultur	re							
62.		respec		nieven	nents of Indians in the f	ield o	of Science and Technology, match			
		List I					List II			
	1.	Inelast	tic theo	ry of s	scattering	P.	S. Chandrasekhar			
	2.	Work o	on stella	ar evo	lution and white dwarfs	Q.	C.V. Raman			
	3.			_	antum mechanics and	R.	S.N. Bose			
	4.	Resear	-	Cresco	e-Einstein Condensate graph and aves	S.	J.C. Bose			
	Code:									
		1	2	3	4					
	(a)	P	Q	R	S					
	(b)	Q	P	S	R					
	(c)	Q	P	R	S					
	(d)	P	Q	S	R					
63.	'Naz foundation v. Government of NCT of D Union of India', 'Navtej Singh Johar v. Unio context of :						·			
	(a)	Man-Animal conflict and wildlife conservation								
	(b)	LGBT	QIA + r	rights						
	(c)	Simult	taneous	elect	ions to Lok Sabha and S	tate l	Legislatures			
	(d)	Reserv	ation b	ased o	on caste					
June	-202	4			(B - 13)					

64.	_	Beginning with Dwarka, Gujarat, if you travel to Jagannath Temple, Puri along the coast, 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								
65.		Bhani, the daughter of Sikh Guru 'X', was married to Sikh Guru 'Y'. 'Z', one of the s of Guru 'Y', was married to Mata Ganga and became guru of sikhs?								
	(a)	Third								
	(b)	Fourth								
	(c)	Fifth								
	(d)	Sixth								
66.	of I	As per Article 266(1) of Indian Constitution, all revenues received by the Government of India, all loans raised by that government by the issue of treasury bills, loans or ways and means advances and all moneys received by that government in repayment of loan shall form:								
	(a)	Consolidated Fund of India								
	(b)	Contingency Fund of India								
	(c)	Public Account of India								
	(d)	Current Account of India								
67.		ich 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								
June	e-202	24 (B-14)								

	(c)	Utopian Politics	(d)	Fabian Politics								
69.	Arra	ange choronologically, the following	ng events of	f modern history of Punjab :								
	1.	Rajiv-Longowal accord										
	2.	Creation of Ropar division as one of the five divisions of Punjab										
	3.	Trifurcation of Punjab including constitution of separate state of Haryana										
	4.	Guru Ka Bagh Morcha										
	(a)	4, 2, 1, 3	(b)	4, 3, 1, 2								
	(c)	3, 4, 1, 2	(d)	3, 4, 2, 1								
70.	birtl the	hplace of Udham Singh from Bha origin and destination districts)?	agat Singh	at you must pass through, to reach museum at Khatkar Kalan (including								
	(a)	4 (b) 5	(c)	6 (d) 7								
71.	Total 280 candidates are undergoing training at Punjab Police Academy. All these candidates drink either one, two or three drinks out of tea, coffee and juice. It is known that: I. Number of candidates who drink tea, coffee and juice are in Arithmetic											
		Progression in that order.										
	II.	Number of candidates who driving juice are in Arithmetic Progress		coffee, tea and juice, and coffee and order.								
	III.	Number of candidates who dr Arithmetic Progression in that of	=	ea, only coffee and only juice are in								
	IV.	Number of candidates who drink only two candidates who drink only two	-	ne drink is two times the number of								
	V.	Number of candidates who drink all the thr	•	o drinks is nine times the number of								
	How	v many candidates drink coffee ?										
	(a)	130	(b)	110								
	(c)	60	(d)	70								
June	e-202	24 (

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

68.

(a)

personal belief?

Orwellian Politics

- **72.** 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
- 73. 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
- **74. 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.

75. 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

76. Directions (**Question Nos. 76**): The following table provides the details about the number of students in 5 different areas of expertise in MBA over the years.

37	Areas of Expertise in MBA								
Years	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

	days	s did he increase his speed?
	(a)	8
	(b)	9
	(c)	10
	(d)	11
78.	coco just grou	conut tree is taller than a pine tree by 6 meters. A woodcutter starts cutting the nut tree from 12 m above the ground so that after the coconut tree falls, its top touches the bottom of the pine tree. Had he cut the pine tree from 8 m above the and, the top of the pine tree would have fallen in a way that its top would just have hed 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
79.		many two-digit numbers are there such that the product of their digits is a sect square greater than 1? 18 16 14
	(d)	12
80.	facii Ran	friends Ram, Rakesh, Ramesh, Rohit and Rupesh are sitting on a round table age the center. Rakesh is sitting to the left of Ram. Rohit is sitting to the right of the tesh. Ram and Ramesh are sitting next to each other. Where is Rupesh sitting a respect to Rohit?
	(a)	Immediate left
	(b)	Second person to the left
	(c)	Third person to the left
	(d)	Fourth person to the left
June	e-202	4 (B-18)

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

77.

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

 (a) ਘੋੜੀ

 (b) ਬੋਲੀ
 - (d) ਸੁਹਾਗ

(c)

ਲੋਰੀ

82. 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

83.	'ਛਾਹ	ਵਲਾ ਕਿਹੜ ਸਮ ਨੂੰ ਕਿਹਾ ਜਾਂਦਾ ਹੈ ?
	(a)	ਸ਼ਾਮ ਦੇ ਸਮੇਂ ਨੂੰ
	(b)	ਦੁਪਹਿਰ ਦੇ ਸਮੇਂ ਨੂੰ
	(c)	ਰਾਤ ਦੇ ਸਮੇਂ ਨੂੰ
	(d)	ਸਵੇਰ ਦੇ ਸਮੇਂ ਨੂੰ
84.	ਹੇਠ f	ਲੇਖੇ ਵਾਕ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਸਹੀ ਸ਼ਬਦ ਜੁੱਟ ਚੁਣੋ :
		ਦੀ ਵੰਡ ਨੇ ਦੋਵਾਂ ਭਰਾਵਾਂ ਨੂੰ ਪਹੁੰਚਾ ਦਿੱਤਾ।
	(a)	ਜੈਦਾਦ, ਕਚਹਿਰੀ
	(b)	ਜਾਇਦਾਦ, ਕਚੈਹਰੀ
	(c)	ਜੈਦਾਤ, ਕਚਹਰੀ
	(d)	ਜਾਇਦਾਦ, ਕਚਹਿਰੀ
85.	ਹੇਠ f	ਲੇਖਿਆਂ ਵਿੱਚੋਂ ਸਹੀ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਵਾਲਾ ਵਾਕ ਚੁਣੋ :
	(a)	ਚੰਗਾ ਹੁਣ ਅਸੀ ਚੱਲਦੇ ਹਾ।
	(b)	ਚੰਗਾ, ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।
	(c)	ਚੰਗਾ ! ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।
	(d)	ਚੰਗਾ; ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾ।
86.	Chr	ysanthemum ਫੁੱਲ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਨਾਂ ਕੀ ਹੈ ?
	(a)	ਚਮੇਲੀ
	(b)	ਨਰਗਸ
	(c)	ਗੁਲਦਾਊਦੀ
	(d)	ਗੁਲਨਾਰ
87.	ਪੱਛਮੀ	ੀ ਪੰਜਾਬ ਵਿੱਚ ਸਾਂਦਲਬਾਰ ਦੀਆਂ ਔਰਤਾਂ ਦੇ ਨਾਚ ਦਾ ਨਾਂ ਹੈ -
	(a)	ਗਿੱਧਾ
	(b)	ਸੰਮੀ
	(c)	ਮਾਹੀਆ
	(d)	ਮਲਵਈ ਗਿੱਧਾ
June	-202	4 (B-20)

	(a)	ਧਨ								
	(b)	ਮੌਜ								
	(c)	ਤੋਤੇ	ਤੇਰੇ ਰਹਿੰਦ ਵਿੱਚ ਵਿੱਚ ਵਿੱਚ ਵਿੱਚ ਵਿੱਚ ਵਿੱਚ ਵਿੱਚ ਵਿੱਚ							
	(d)	ਖੇਹ								
			_							
89.	'ਆਪ	ਾ ਅੱਜ-ਕਲ੍ਹ ਕੀ	ਕਰਦੇ	ਹੋ ?' - ਕਿਹੜਾ ਪੁਰਖ ਹੈ ?						
	(a)	ਪਹਿਲਾ ਪੁਰਖ								
	(b)	ਦੂਜਾ ਪੁਰਖ								
	(c)	ਤੀਜਾ ਪੁਰਖ								
	(d)	ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋ	ਈ ਨਹ	f i						
90.	ਸਮਾਰ	ਨਾਰਥਕ ਸ਼ਬਦਾ <u>ਂ</u>	ਦੀ ਸੂਚ							
		ਸੂਚੀ I		ਸੂਚੀ II						
	A.	ਤਹਿਜ਼ੀਬ	i.	ਦੋਸਤੀ						
	B.	ਗੌਂ	ii.	ਜਿਸਮ						
	C.	ਜੁੱਸਾ	iii.	ਸੱਭਿਅਤਾ						
	D.	ਸੱਜਣਤਾ	iv.	ਮਤਲਬ						
	ਉਪਰ	ਰੋਕਤ ਦਾ ਸਹੀ ਮਿਲਾਨ ਕਰੋ :								
	(a)	A-iii, B-iv,	C-i, 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	e-202	4		(B-21)						

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

		List I								List II		
	1.	Author of the famous book 'Species Plantarum'								Carl Linnaeus		
	2. Proposed the concept of 'plant ideotypes' for the first time									G.H. Shull		
	3. Coined the term 'heterosis' for the first time								R.	C.M. Donald		
	Code:											
		1	2	3								
	(a)	P	\mathbf{Q}	R								
	(b)	\mathbf{R}	\mathbf{Q}	P								
	(c)	P	\mathbf{R}	Q								
	(d)	R	P	Q								
92.	Co	nsider	the foll	lowing s	tatements	s:						
	1.	The	wheat	grain pr	otein is c	alled 'X'.						
	2.	Initi	ally, th	ne potass	sium defic	ciency syn	pton	ns in barley app	pear	on 'Y'.		
	Ide	dentify correct pair of X and Y (respectively)										
	(a)	Zein	and U	pper lea	ives							
	(b)	Glut	en and	Upper :	leaves							
	(c)	Glyc	inin ar	nd Midd	le leaves							
	(d)	Glut	en and	Lower	leaves							
93.	If 3	30 mai	ze plan	ts are c	ounted in	5 metre o	of row	length and th	ie ro	w spacing is 60 cm,		
	wh	at will	be the	populat	ion densi	ty of maiz	e ?					
	(a)	50,0	00 plar	nts/ hect	are		(b)	75,000 plants	/hect	care		
	(c)	1,00	,000 pl	ants/hed	etare		(d)	1,25,000 plan	ts/he	ectare		
94.	Flo	oding l	kills th	e weeds	by exclud	ling the _		from the	eir e	nvironment.		
	(a)	Air					(b)	Water				
	(c)	Nut	rients				(d)	Microbes				
95.	Los	ss of ho	rizonta	al resista	ance to a	plant dise	ase d	uring a breedir	ng cy	vcle is		
	(a)	Booi	n and l	bust cyc	le							
	(b)	Vert	ifolia e	effect								
	(c)	Qua	ntitati	ve resist	ance							
	(d)	Path	ovar									
June	-20	24				(B-22	2)					

Match the following:

91.

96.	Soils	s with p	oH < 8.	5, EC	> 4 dS	m^{-1}	and ES	SP less	than	15 are d	lesignated	as	
	(a)	Saline	soils					(b)	Alka	li soils			
	(c)	Black	alkali	soils				(d)	Sodi	c soils			
97.	Pick	the co	rrect st	ateme	ent:								
	(a)	One standard atmosphere is equal to 101,325 hPa											
	(b)	One s	tandar	d atmo	ospher	e is e	qual to	101.3	25 hP	a			
	(c)	Gener	ally, di	ry adia	abatic l	lapse	rate p	er 100	m aso	ent is 9	.8°C		
	(d)	Generally, dry adiabatic lapse rate per 100 m ascent is $0.98^{\circ}\mathrm{C}$											
98.	Cons	Consider the following statements and choose the incorrect ones:											
	1.	Widely spaced isobars represent steep change in pressure											
	2.	Cumu lightn		bus c	clouds	are	associ	iated	with	heavy	rainfall,	thunder	and
	3.	India	receive	es less	than n	orma	al rainf	all un	der th	e influe	nce of La N	Vina.	
	(a)	2 only	,					(b)	3 on	ly			
	(c)	1 and	2 only					(d)	1 an	d 3 only			
99.	Mate			ng enti	ities in	list l	with (corres	pondir		es in List I	I :	
	1	List I Father of modern organic agriculture							List II P. Sir Albert Howard				
	1. 2.				_	_		;		E.J. Bu		a	
	2. 3.		r of Ind other of					ntoxt	Q. R.				
	J.	1116 17	tuiei oi	exten	181011 11.	ı a gı	bbai co	шехі	s.				
									T.		nd Freud		
	Cod	le :											
		1	2	3									
	(a)	R	Q	P									
	(b)	P	Q	S									
	(c)	Q	R	S									
	(d)	Q	R	$\tilde{\mathrm{T}}$									
100.	Yello	ow vein	n mosai	c of ok	ra is p	rima	rily tra	ınsmit	ted by	7			
	(a)	Aphid						(b)	Whit	te fly			
	(c)	Leaf h	nopper					(d)	Nem	atode			

(B - 23)

101.	Choo	ose the correct match:					
	(a)	Mancozeb and Thiram	:	Systemic fungici	des		
	(b)	Glyphosate	:	Selective contact	herbicide		
	(c)	Carbendazim	:	Systemic fungici	de		
	(d)	Glyphosate	:	Nonselective con	tact herbicide		
102.	Fern	oxone 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		
103.	Crop	rotations are effective i	in o	controlling			
	(a)	Crop bound weeds but	not	t crop associated v	veeds		
	(b)	Both crop bound weeds	ar	nd crop associated	weeds		
	(c)	Crop associated weeds	bu	t not crop bound v	veeds		
	(d)	Neither crop bound wee	eds	s nor crop associat	ed weeds		
104.	The	bio-agent useful for managing water hyacinth is					
	(a)	Bactra sp.		(b)	Cyrtobagous salviniae		
	(c)	Neochetina bruchi		(d)	Dactylopius sp.		
105.	Choo	ose the correct options :					
	1.	First herbicide-resistar	ıt v	weed in the world:	$A mar anthus\ sp.$		
	2.	First herbicide-resistar	nt v	weed in the world:	Senecio vulgaris		
	3.	Zea mays ceratina is flo	our	corn			
	4.	Zea mays ceratina is wa	axy	y corn			
	(a)	1 and 3 only		(b)	2 and 3 only		
	(c)	1 and 4 only		(d)	2 and 4 only		
106.	Cons	sider the following states	me	nts and choose th	e correct options :		
	1.	Leaf reddening in cotto	n i	s due to deficienc	y of Mg.		
	2.	Leaf reddening in cotto			y of Zn and Ca.		
	3.	Diamond back moth is	_				
	4.	Diamond back moth is	a p	est of pulses and	oil seeds.		
	(a)	1 and 3 only		(b)	2 and 4 only		
	(c)	1 and 4 only		(d)	2 and 3 only		

(B - 24)

107.	The ?	Bhopal Gas Tragedy was due the leaka	ge of	gas.
	(a)	Hexane	(b)	Methane
	(c)	Methyl thiocyanate	(d)	Methyl isocyanate
108.		yo chemicals, A and B have LD_{50} vectively, which one of the following stat		
	(a)	A is less toxic than B	(b)	B is less toxic than A
	(c)	Both have equal toxicity	(d)	Both are safe chemicals
109.		ch of the following is the most suitable oil solarisation?	e com	abination related to the requirements
	(a)	Summer season; black polythene; mois	${ m st\ soil}$	
	(b)	Winter season; black polythene; dry so	oil	
	(c)	Summer season; transparent polythen	ie; mo	ist soil
	(d)	Summer season; transparent polythen	ie; dry	y soil
110.	Amo	ng the following, which group of elemen	nts is	immobile in plants :
	(a)	Ca, Cu, B, Fe	(b)	Cu, Mn, Mg, B
	(c)	Ca, N, K, S	(d)	S, Cu, Mg, B
111.	Whic	ch among the following is known as the	"Que	en of Oilseeds" ?
	(a)	Groundnut	(b)	Sesame
	(c)	Sunflower	(d)	Mustard
112.	Whic	ch type of earthworm is useful for verm	icomp	posting?
	(a)	Epigeic	(b)	Mesogeic
	(c)	Endogeic	(d)	Endogeic or Mesogeic
113.	1.	Central Soil Salinity Research Institut	te is l	ocated at X.
	2.	The first KVK in India was established	d in 1	974 at Y.
	Iden	tify X and Y.		
	(a)	Karnal and Puducherry respectively		
	(b)	Bathinda and Ahmedabad respectively	y	
	(c)	Hyderabad and Delhi respectively		
	(d)	Jaipur and Kolkata respectively		

(B - 25)

114.	Pick	the correct statement :							
	(a)	The largest source of irrigation in Indi	a is c	anals					
	(b)	o) Sunflower is a cross pollinated crop							
(c) Deep ploughing is recommended twice for every season									
	(d)	World Wetlands Day is celebrated on 2	21 st N	March					
115.	Amo	ng the following, which crop has the highest water requirement in general?							
	(a)	Wheat	(b)	Cotton					
	(c)	Sugarcane	(d)	Rye					
116.	Auth	or of the book 'The Road Back to Natur	re:R	egaining the Paradise Lost' is					
	(a)	Rachel Carlson							
	(b)	Subhash Palekar							
	(c)	Yoshikazu Kawaguchi							
	(d)	Masanobu Fukuoka							
117.	• The process of dissolution and removal of sesquioxides from A horizon and the deposition in B horizon is called:								
	(a)	Podzolisation							
	(b)	Laterisation							
	(c)	Humification							
	(d)	Calcification							
118.	The	phosphorus fixing capacity of clay mine	erals	may be found in order :					
	(a)	Vermiculite > Illite > Montmorillonite	> Mu	ıscovite					
	(b)	Montmorillonite > Vermiculite > Kaoli	inite :	> Muscovite					
	(c)	Muscovite > Illite > Montmorillonite >	Vern	niculite					
	(d)	Illite > Montmorillonite > Muscovite >	Vern	miculite					
119.	The	organic matter content (%) of soil with	1.3 %	organic carbon is :					
	(a)	2.60	(b)	1.95					
	(c)	0.65	(d)	2.24					
120.	Amo	ng the following, which crop yields leaf	fibre	:					
	(a)	Jute	(b)	Cotton					
	(c)	Agave	(d)	Mesta					

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

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

Booklet Sr. No.		Question Booklet Set
Candidate's Name		
Father's Name	<u>.</u>	
Date of Birth: D D M M Y Y Y Y		
OMR Response Sheet No	Roll No.	
Candidate's Signature : (Please sign in the box)		tal Questions : 120] Allowed : 2 Hours

INSTRUCTIONS

- 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 Ink 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.

(Please sign in the box)

- 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 MOST APPROPRIATE 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. question remains unattempted, there will be no penalty for that question.
- 12. Use of Electronic/Manual Calculator is prohibited.
- 13. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

(C-1)June-2024

1.	Match the following:										
		List I			List II						
	1.	Author	of the	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	2	3							
	(a)	P	Q	\mathbf{R}							
	(b)	\mathbf{R}	Q	P							
	(c)	P	R	Q							
	(d)	\mathbf{R}	P	Q							
2.	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									
	(b)	Gluten and Upper leaves									
	(c)	Glycinin and Middle leaves									
	(d)	Gluten and Lower leaves									
3.	If 30 maize plants are counted in 5 metre of row length and the row spacing is 60 cm,										
	wha	what will be the population density of maize?									
	(a)	50,00	00 plan	nts/ hectare		(b)	75,000 plants/hectare				
	(c)	1,00,	000 pl	ants/hectar	e	(d)	1,25,000 plan	ts/he	ectare		
4.	Flo	oding k	ills th	e weeds by	excluding the		from th	eir e	nvironment.		
	(a)	Air				(b)	Water				
	(c)	Nutr	ients			(d)	Microbes				
5.	Los	s of ho	rizonta	al resistanc	e to a plant dis	ease d	uring a breedi	ng cy	vcle is		
	(a)	Boon	n and l	oust cycle							
	(b)	Vertifolia effect									
	(c)	Quar	ntitativ	ve resistano	ee						
	(d)	Path	ovar								
June	e-202	24			(C -	2)					

6.	Soil	\mathbf{s} with \mathbf{j}	pH < 8	8.5, E	C > 4 dS	m^{-1}	and ESF	P less	than	15 are d	lesignated	as	
	(a)	Salin	e soils					(b)	Alka	li soils			
	(c)	Black	alkali	i soils	3			(d)	Sodi	c soils			
7.	Pick	the co	rrect s	stater	nent :								
	(a)	One standard atmosphere is equal to 101,325 hPa											
	(b)	One standard atmosphere is equal to 101.325 hPa											
	(c)	Generally, dry adiabatic lapse rate per 100 m ascent is $9.8^{\circ}\mathrm{C}$											
	(d)	Gene	rally, d	dry ac	diabatic	lapse	rate per	r 100	m aso	cent is 0	.98°C		
8.	Con	Consider the following statements and choose the incorrect ones:											
	1.	Wide	ly spac	ed is	obars re	prese	nt steep	chai	nge in	pressur	e		
	2.	Cumu lightr		nbus	clouds	are	associa	ited	with	heavy	rainfall,	thunder	and
	3.	India	India receives less than normal rainfall under the influence of La Nina.										
	(a)	2 only	7					(b)	3 on	ly			
	(c)	1 and	2 only	y				(d)	1 an	d 3 only			
9.	Mat	ch the	follow	ing ei	ntities in	list i	I with co	rres	pondir	ng entrie	es in List I	I :	
		List l	[List II			
	1.	Fathe	er of m	oderr	n organio	agri	culture		P.	Sir Alb	ert Howar	d	
	2.	Fathe	er of In	dian	Plant Pa	athol	ogy		Q.	E.J. Bu	ıtler		
	3.	The fa	ather o	of ext	ension ii	n a gl	obal con	text	R.	R. B.B. Mundkur			
									S.	Paul Le	eagans		
									Т.	Sigmur	nd Freud		
	Cod	le :											
		1	2	3									
	(a)	R	Q	P									
	(b)	P	Q	\mathbf{S}									
	(c)	Q	\mathbf{R}	\mathbf{S}									
	(d)	Q	R	T									
10.	Yell	ow veir	n mosa	aic of	okra is p	orima	rily tran	smit	ted by	7			
	(a)	Aphio	l					(b)	Whit	te fly			
	(c)	Leaf	honnei	•				(b)	Nem	atode			

(C - 3)

11.	Cho	ose the correct match:				
	(a)	Mancozeb and Thiram	:	Systemic fungio	cides	
	(b)	Glyphosate	:	Selective contac	ct he	rbicide
	(c)	Carbendazim	:	Systemic fungio	cide	
	(d)	Glyphosate	:	Nonselective co	ntac	t herbicide
12.	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
13.	Crop	rotations are effective i	in (controlling		
	(a)	Crop bound weeds but	no	t crop associated	wee	ds
	(b)	Both crop bound weeds	ar	nd crop associate	d we	eeds
	(c)	Crop associated weeds	bu	t not crop bound	wee	ds
	(d)	Neither crop bound we	eds	s nor crop associa	ated	weeds
14.	The	bio-agent useful for mar	nag	ging water hyaci	nth i	s
	(a)	Bactra sp.		(b)	Су	rtobagous salviniae
	(c)	Neochetina bruchi		(d)	Da	actylopius sp.
15.	Cho	ose the correct options :				
	1.	First herbicide-resistar	ıt v	weed in the worl	d:An	naranthus sp.
	2.	First herbicide-resistar	ıt v	weed in the worl	d: Se	necio vulgaris
	3.	Zea mays ceratina is flo	our	corn		
	4.	Zea mays ceratina is w	ax	y corn		
	(a)	1 and 3 only		(b)	2 i	and 3 only
	(c)	1 and 4 only		(d)	2 i	and 4 only
16.	Cons	sider the following state:	me	ents and choose t	he co	orrect options :
	1.	Leaf reddening in cotto	n i	is due to deficien	cy of	Mg.
	2.	Leaf reddening in cotto			cy of	Zn and Ca.
	3.	Diamond back moth is	_			
	4.	Diamond back moth is	a p	pest of pulses and	d oil	seeds.
	(a)	1 and 3 only		(b)	2 i	and 4 only
	(c)	1 and 4 only		(d)	2 i	and 3 only

17.	The	Bhopal Gas Tragedy was due the leaks	age of	gas.						
	(a)	Hexane	(b)	Methane						
	(c)	Methyl thiocyanate	(d)	Methyl isocyanate						
18.		wo chemicals, A and B have LD ₅₀								
		ectively, 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						
19.	Which of the following is the most suitable combination related to the requirements for soil solarisation?									
	(a)	a) Summer season; black polythene; moist soil								
	(b)	Winter season; black polythene; dry s	oil							
	(c)	Summer season; transparent polythe	ne; m	oist soil						
	(d)	Summer season; transparent polythe	ne; dr	y soil						
20.	Amo	ong the following, which group of eleme	ents is	s immobile in plants:						
	(a)	Ca, Cu, B, Fe	(b)	Cu, Mn, Mg, B						
	(c)	Ca, N, K, S	(d)	S, Cu, Mg, B						
21.	Which among the following is known as the "Queen of Oilseeds"?									
	(a)	Groundnut	(b)	Sesame						
	(c)	Sunflower	(d)	Mustard						
22.	Whi	ch type of earthworm is useful for vern	nicom	posting?						
	(a)	Epigeic	(b)	Mesogeic						
	(c)	Endogeic	(d)	Endogeic or Mesogeic						
23.	1.	Central Soil Salinity Research Institu	ite is l	located at X.						
	2.	The first KVK in India was established	ed in 1	1974 at Y.						
	Iden	tify X and Y.								
	(a)	Karnal and Puducherry respectively								
	(b)	Bathinda and Ahmedabad respective	ly							
	(c)	Hyderabad and Delhi respectively								
	(d)	Jaipur and Kolkata respectively								

(C-5)

	(a)	a) The largest source of irrigation in India is canals								
	(b)	Sunflower is a cross pollinated crop								
	(c)	Deep ploughing is recommended twice for every season								
	(d)	(d) World Wetlands Day is celebrated on 21 st March								
25.	Amo	ong the following, which crop has	s the highest	water requirement in general?						
	(a)	Wheat	(b)	Cotton						
	(c)	Sugarcane	(d)	Rye						
26.	Author of the book 'The Road Back to Nature : Regaining the Paradise Lost' is									
	(a)	Rachel Carlson								
	(b)	Subhash Palekar								
	(c)	Yoshikazu Kawaguchi								
	(d)	Masanobu Fukuoka								
27.		The process of dissolution and removal of sesquioxides from A horizon and their deposition in B horizon is called :								
	(a)	Podzolisation								
	(b)	Laterisation								
	(c)	Humification								
	(d)	Calcification								
28.	The	The phosphorus fixing capacity of clay minerals may be found in order:								
	(a)	Vermiculite > Illite > Montmor	illonite > Mu	ıscovite						
	(b)	Montmorillonite > Vermiculite	> Kaolinite	> Muscovite						
	(c)	Muscovite > Illite > Montmoril	lonite > Vern	niculite						
	(d)	Illite > Montmorillonite > Muscovite > Vermiculite								
29.	The	organic matter content (%) of so	il with 1.3 %	organic carbon is :						
	(a)	2.60	(b)	1.95						
	(c)	0.65	(d)	2.24						
30.	Amo	ong the following, which crop yie	lds leaf fibre	:						
	(a)	Jute	(b)	Cotton						
	(c)	Agave	(d)	Mesta						
June	-202	.4	(C-6)							

24. Pick the correct statement :

31.	Which one of the following groups of essential plant nutrients falls in the 'non-mineral							
	nut	rients' category ?						
	(a)	Primary nutrients						
	(b)	Secondary nutrients						
	(c)	Micronutrients						
	(d)	C, H and O						
32.	Con	sider 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						
	Cho	ose the correct statement(s):						
	(a)	1 only						
	(b)	1 and 2 only						
	(c)	1 and 3 only						
	(d)	2 and 3 only						
33.	Cho	ose 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)						
34.		Punjab, 'Rice (short duration) – Vegetable Pea – Wheat – Mungbean' rotation is an mple of :						
	(a)	One-year rotation						
	(b)	One and half-year rotation						
	(c)	Half-year rotation						
	(d)	Two-year rotation						
35.		d out the quantity of atrazine herbicide WP containing 50% active ingredient (a.i.) e 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						
June	e-202	(C – 7)						

36.		Which one of the following nitrogenous fertilizers is not included in the Fertilizer Control Order (FCO) of India ?								
	(a)	Ammonium sulphate								
	(b)	Calcium Ammonium Nitrate								
	(c)) Ammonium nitrate								
	(d)	All of the above								
37.	Base	ed upon morphological features, weeds	have	been classified into grassy, sedges and						
	broadleaf groups. The sedges belong to the plant family :									
	(a) Poaceae									
	(b)	Asteraceae								
	(c)	Graminae								
	(d)	Cyperaceae								
38.	Rice	weeds <i>Echinochloa crus-galli</i> and <i>E</i>	chino	ochloa colona belong to the following						
	grou	p of plants :								
	(a)	CAM plants	(b)	C_4 plants						
	(c)	C ₃ plants	(d)	Dicot plants						
39.		a 20-acre farm, crops are raised on 18 (winter season) and 20 acres in zaid (se		·						
		ping intensity of the farm?	-	8 - 7 - 7 7						
	(a)	150%	(b)	250%						
	(c)	350%	(d)	500%						
40.	"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 ch	nanne	el						
	(d)	Measure the water flow in the channe	1							

41.	Whi	Which one of the following is the correct pair of sulphur containing amino acids?								
	(a)	Cysteine and lysine								
	(b)	Cysteine and leucine								
	(c)	Cysteine and methionine								
	(d)	Cysteine and isoleucine								
42.	The	"Bangalore process" of anaerobic comp	osting	g was developed by :						
	(a)	Albert Howard	(b)	C.N. Acharya						
	(c)	P.N. Arya	(d)	Robert Howard						
43.	Cho	ose the most suitable option :								
	(a)	Sorghum grain is considered as Caryo	opsis.							
	(b)	Ergot or sugary disease of sorghum is	s prim	arily caused by <i>Gleocercospora sorgh</i> i.						
	(c)	Both (a) and (b)								
	(d)	Neither (a) nor (b)								
44.	The optimum sowing time of chickpea in the North India under the irrigated condition is:									
	(a)	First fortnight of October								
	(b)	Second fortnight of October								
	(c)	First fortnight of December								
	(d)	Second fortnight of November								
45.	"LL	1373" and "LL 931" are the varieties of	f:							
	(a)	Kabuli chickpea								
	(b)	o) Desi chickpea								
	(c)	Linseed								
	(d)	Lentil								

(C-9)

46.	Cons	sider the following statements about Soybean and choose the correct option :
	(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
		
47.	The	'sterility mosaic' disease of pigeonpea is caused by X; and,
		of Sand, Peat and Clay, Y has highest Soil bulk density. Identify X and Y pectively):
	-	
	(a)	Virus and clay
	(b)	Bacteria and clay
	(c)	Nematode and peat
	(d)	Virus and sand
48.	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
49.	"Cor	nola" refers to the cultivars of Oilseed rape in Canada. The seeds of "Canola"
40.		ild contain:
	(a)	<20% erucic acid (b) >20% erucic acid
	(c)	>2% erucic acid (d) <2% erucic acid
50.	Dow	dery mildew of pea and Dropsy disease in human beings may respectively be
50.		sed 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
June	e-202	4 (C – 10)

51.	Consider the following statements and choose the correct option :										
	1.	Uranyl acetate stain is used in electron microscopy									
	2.	Etiology is study of cause of disease									
	3.	Etiology is study of symptom of disease									
	4.	Phyllody is development of floral organs into leaf-like structures									
	(a)	1, 2 and 4 only	(b)	1,	3 and 4 only						
	(c)	1 and 3 only	(d)	2 (only						
52.	Fill in the blanks choosing suitable entities from the options given below:										
	1.	Muriate of potash is not recommended for X									
	2.	A bacterium capable of mobilising potassium is <u>Y</u>									
	X ar	nd Y are (respecitvely):									
	(a)	Tobacco and Frateuria aurantia									
	(b)	Rice and Azotobacter chroococcum									
	(c)	${\bf Coconut\ and\ } {\it Azospirillum\ lipo ferum}$									
	(d)	Maize and Piriformospora indica									
53.	Cho	ose the correct statement									
	(a)	Of the pigeon pea, soybean, green gram and castor, castor contains the highest oil content									
	(b)	Of the groundnut, mustard, cotton and safflower, mustard contains maximum linoleic acid									
	(c)	Both (a) and (b)									
	(d)	None of the above									
54.	Match the following entities in List I from entities of List II:										
		List I			List II						
	1.	Insecticide Act was passed in the year	F	Ρ.	1968						
	2.	In India, the MRL is fixed by	(Q.	1998						
		,		₹.	CODEX						
				S.	FSSAI						
			7		ICAR						
			,		ICAI						
	Cod	le:									
		1 2									
	(a)	P R									
	(b)	P S									
	(c)	Q R									
	(d)	$\mathrm{Q}-\mathrm{T}$									

55.	Safflower in India is usually grown during :										
	(a)	Rabi season									
	(b)	Kharif season									
	(c)	Zaid season									
	(d)	Rabi, kharif and zaid seasons									
56.	Com	Compared to popular rice varieties, 'DRR Dhan 48' and 'DRR Dhan 49' contain higher									
	levels of:										
	(a)	(a) Iron									
	(b)	b) Zinc									
	(c)	Boron									
	(d)	Molybdenum									
57.	1.	High yielding dwarf varieties o	f wheat were	e developed by X							
	2.	The term 'Evergreen Revolution	n' has been g	given by Y							
	Identify X and Y (respectively):										
	(a)	Dr. M. S. Swaminathan and Dr. R. S. Paroda									
	(b)	Dr. R. S. Paroda and C. T. Patel									
	(c)	Dr. N. E. Borlaug and Dr. M. S.	Swaminath	nan							
	(d)	Dr. B. P. Pal and Dr. R. S. Paro	da								
58.	relea		_	ew crop type intentionally bred and with coining of the term 'cultivar' in							
	(a)	L.H. Bailey	(b)	M.S. Swaminathan							
	(c)	John Ray	(d)	A.P. de Candolle							
59.	"Tungro virus" of rice is usually transmitted by :										
	(a)	Gundhy bug	(b)	Gall midge							
	(c)	Army worm	(d)	Green leaf hopper							
60.		t would be the harvest index of tonnes/ha?	rice if grain	yield is 3.5 tonnes/ha and straw yield							
	(a)	35%	(b)	45%							
	(c)	54%	(d)	65%							
June	e-202	4 (C - 12)								

•	Con	sideı	r 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	3 and 4 only							
	(c)	1, 3	3 and 4 only							
	(d)	1, 2	2 and 4 only							
	Fill 1.	Lis The	ne blanks in List I from List II (Choose st I e optimum seed rate for sowing one	e the :	most appropriate option) List II 70-80 Kg					
		The hear	ne blanks in List I from List II (Choose et I e optimum seed rate for sowing one etare of pearl millet is: X e optimum seed rate for timely sown		List II					
	1.	The hear	ne blanks in List I from List II (Choose et I e optimum seed rate for sowing one etare of pearl millet is: X	P.	List II 70-80 Kg					
	1.	The hear	ne blanks in List I from List II (Choose et I e optimum seed rate for sowing one etare of pearl millet is: X e optimum seed rate for timely sown	P. Q.	List II 70-80 Kg 7-8 Kg					
	1. 2.	Lis The hec The fiel	ne blanks in List I from List II (Choose et I e optimum seed rate for sowing one etare of pearl millet is: X e optimum seed rate for timely sown	P. Q. R.	List II 70-80 Kg 7-8 Kg 40-50 Kg					
	1. 2.	Lis The hec The fiel	ne blanks in List I from List II (Choose at I e optimum seed rate for sowing one stare of pearl millet is: X e optimum seed rate for timely sown dpea crop (for 1 hectare) is: Y	P. Q. R.	List II 70-80 Kg 7-8 Kg 40-50 Kg					
	1. 2. X ar	Lis The hec The fiel	ne blanks in List I from List II (Choose at I e optimum seed rate for sowing one stare of pearl millet is: X e optimum seed rate for timely sown dpea crop (for 1 hectare) is: Y	P. Q. R.	List II 70-80 Kg 7-8 Kg 40-50 Kg					
	1. 2. X ar	Lis The hec The fiel	ne blanks in List I from List II (Choose at I e optimum seed rate for sowing one stare of pearl millet is: _X_ e optimum seed rate for timely sown dpea crop (for 1 hectare) is: _Y_ are respectively:	P. Q. R.	List II 70-80 Kg 7-8 Kg 40-50 Kg					
	 1. 2. X ar Cod 	Lis The hed The fiel and Y le: X	ne blanks in List I from List II (Choose at I e optimum seed rate for sowing one etare of pearl millet is: _X_ e optimum seed rate for timely sown dpea crop (for 1 hectare) is: _Y_ are respectively:	P. Q. R.	List II 70-80 Kg 7-8 Kg 40-50 Kg					
	 1. 2. X ar Cod (a) 	List The head The field of Y le:	ne blanks in List I from List II (Choose at I e optimum seed rate for sowing one stare of pearl millet is: X e optimum seed rate for timely sown dpea crop (for 1 hectare) is: Y are respectively:	P. Q. R.	List II 70-80 Kg 7-8 Kg 40-50 Kg					

- **63.** 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

64.	Choose the correct statements:										
	1. In honey bee colony, the worker bee is Fertile male.										
	2.	In honey bee colony, the worker bee is Unfertile female.									
	3.	Insects with single pair of membra halters belong to Diptera order.	wings and hind pair modified into								
	4.	Insects with single pair of membra halters belong to Lepidoptera order.	anous	wings and hind pair modified into							
	(a) (c)	1 and 3 only 2 and 4 only	(b) (d)	2 and 3 only 1 and 4 only							
65.	Inhibitory activity of one plant species commonly through exudation of chemicals from										
	(a)	its roots on the seed germination or growth of other associated species is known (a) Antibiosis (b) Commensalism									
	(\mathbf{c})	Allelopathy	(d)	Negativism							
66.		process of breaking, scratching or med	hanic	al abrasion of the seed coat to make it							
	peri (a)	meable to water and gases is called as : Chopping	(b)	Notching							
	(a) (c)	Solidification	(d)	Scarification							
	(0)		(u)	Scarification							
67.		at quantity of nitrogen can be supplied	•								
	(a)	45 kg	(b)	54 kg							
	(c)	90 kg	(d)	120 kg							
68.	Whi	ich of the following expressions is used	to cal	culate real value of seed ?							
	(a)	[Purity (%) \times Germination (%)] / 100									
	(b)										
	(c)	[Germination $(\%) \times (100)$] / Purity $(\%)$)								
	(d)	[Purity (%) × Germination (%)] × 100									
69.	Con	Consider the following statements:									
	1.	India is largest producer of Potassiun	ı ferti	lizer in the world.							
	2.	2. Blind hoeing is possible in Sugarcane.									
	3.	3. When primary tillage is completely avoided and secondary tillage is restricted to									
	seedbed preparation in the row zone only, it is known as Zero tillage.										
	Whi	ich of these statements are incorrect?									
	(a)	1 only	(b)	3 only							
			(d)	0 10 1							
	(c)	1 and 2 only	(u)	2 and 3 only							
70.		d soils are generally found and formed i		2 and 3 only							
70.		•		2 and 3 only							
70.	Acid	d soils are generally found and formed i		2 and 3 only							
70.	Acid	l soils are generally found and formed i Humid regions with high rainfall		2 and 3 only							

71.	1. 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 : in population				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)	Vultur	re							
72.		n respect		nieven	nents of Indians in the f	ield o	f Science and Technology, match			
		List I					List II			
	1.	Inelastic theory of			cattering	P.	S. Chandrasekhar			
	2.	Work o	n stell	ar evo	lution and white dwarfs	Q.	C.V. Raman			
	3.	Contribution to quantum mechanics and					S.N. Bose			
	4.	-	ch on (Cresco	e-Einstein Condensate graph and aves	S.	J.C. Bose			
	Code:									
		1	2	3	4					
	(a)	P	Q	R	S					
	(b)	Q	P	S	R					
	(c)	Q	P	R	S					
	(d)	P	Q	S	R					
73.	'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								
June	:-202·	4			(C - 15)					

74.	_	inning with Dwarka, Gujarat, if you travel to Jagannath Temple, Puri along the st, 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
75.		Bhani, the daughter of Sikh Guru 'X', was married to Sikh Guru 'Y'. 'Z', one of the s of Guru 'Y', was married to Mata Ganga and became guru of sikhs ?
	(a)	Third
	(b)	Fourth
	(c)	Fifth
	(d)	Sixth
76.	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 as and means advances and all moneys received by that government in repayment can shall form:
	(a)	Consolidated Fund of India
	(b)	Contingency Fund of India
	(c)	Public Account of India
	(d)	Current Account of India
77.		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
June	e-202	(C – 16)

	(c)	Utopian Politics	(d)	Fabian Politics							
79.	Arra	ange choronologically, the	following events o	of modern history of Punjab :							
	1.	Rajiv-Longowal accord									
	2.	Creation of Ropar divisio	n as one of the fiv	ve divisions of Punjab							
	3.	Trifurcation of Punjab in	cluding constituti	ion of separate state of Haryana							
	4.	Guru Ka Bagh Morcha									
	(a)	4, 2, 1, 3	(b)	4, 3, 1, 2							
	(c)	3, 4, 1, 2	(d)	3, 4, 2, 1							
80.	birtl		om Bhagat Singh	that you must pass through, to reach n museum at Khatkar Kalan (including							
	(a)	4 (b) 5	(c)	6 (d) 7							
81.	cano	didates drink either one, wn that :	two or three dri	g at Punjab Police Academy. All these inks out of tea, coffee and juice. It is coffee and juice are in Arithmetic							
	1.	Progression in that order		, conee and juice are in Artifficence							
	II.	Number of candidates w juice are in Arithmetic P		nd coffee, tea and juice, and coffee and t order.							
	III.	Number of candidates varithmetic Progression is	-	tea, only coffee and only juice are in							
	IV.	Number of candidates v candidates who drink on	=	one drink is two times the number of							
	V. Number of candidates who drink only two drinks is nine times the number of candidates who drink all the three drinks.										
	How	many candidates drink c	offee?								
	(a)	130	(b)	110							
	(c)	60	(d)	70							
June	June-2024 (C – 17)										

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

78.

(a)

personal belief?

Orwellian Politics

- **82.** 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
- 83. 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
- **84. 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.

85. 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

86. Directions (**Question Nos. 86**): The following table provides the details about the number of students in 5 different areas of expertise in MBA over the years.

37	Areas of Expertise in MBA						
Years	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

87.	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	s did he increase his speed?				
	(a)	8				
	(b)	9				
	(c)	10				
	(d)	11				
88.	coco just grou	conut tree is taller than a pine tree by 6 meters. A woodcutter starts cutting the nut tree from 12 m above the ground so that after the coconut tree falls, its top touches the bottom of the pine tree. Had he cut the pine tree from 8 m above the and, the top of the pine tree would have fallen in a way that its top would just have hed 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				
89.		many two-digit numbers are there such that the product of their digits is a fect square greater than 1?				
	(a)	18				
	(b)	16				
	(c)	14				
	(d)	12				
90.	facii Ran	e friends Ram, Rakesh, Ramesh, Rohit and Rupesh are sitting on a round table ing the center. Rakesh is sitting to the left of Ram. Rohit is sitting to the right of nesh. Ram and Ramesh are sitting next to each other. Where is Rupesh sitting is respect to Rohit?				
	(a)	Immediate left				
	(b)	Second person to the left				
	(c)	Third person to the left				
	(d)	Fourth person to the left				
June	-202	4 (C – 20)				

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

 (a) ਘੋੜੀ

 (b) ਬੋਲੀ
 - (d) ਸੁਹਾਗ

(c)

ਲੋਰੀ

92. 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

93.	'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
94.	ਹੇਠ ਿ	ਲੇਖੇ ਵਾਕ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਸਹੀ ਸ਼ਬਦ ਜੁੱਟ ਚੁਣੋ :
		ਦੀ ਵੰਡ ਨੇ ਦੋਵਾਂ ਭਰਾਵਾਂ ਨੂੰ ਪਹੁੰਚਾ ਦਿੱਤਾ।
	(a)	ਜੈਦਾਦ, ਕਚਹਿਰੀ
	(b)	ਜਾਇਦਾਦ, ਕਚੈਹਰੀ
	(c)	ਜੈਦਾਤ, ਕਚਹਰੀ
	(d)	ਜਾਇਦਾਦ, ਕਚਹਿਰੀ
95.	ਹੇਠ ਿ	ਲੇਖਿਆਂ ਵਿੱਚੋਂ ਸਹੀ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਵਾਲਾ ਵਾਕ ਚੁਣੋ :
	(a)	ਚੰਗਾ ਹੁਣ ਅਸੀ ਚੱਲਦੇ ਹਾ।
	(b)	ਚੰਗਾ, ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।
	(c)	ਚੰਗਾ ! ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।
	(d)	ਚੰਗਾ; ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾ।
96.	Chr	ysanthemum ਫੁੱਲ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਨਾਂ ਕੀ ਹੈ ?
	(a)	ਚਮੇਲੀ
	(b)	ਨਰਗਸ
	(c)	ਗੁਲਦਾਊਦੀ
	(d)	ਗੁਲਨਾਰ
97.	ਪੱਛਮ	ੀ ਪੰਜਾਬ ਵਿੱਚ ਸਾਂਦਲਬਾਰ ਦੀਆਂ ਔਰਤਾਂ ਦੇ ਨਾਚ ਦਾ ਨਾਂ ਹੈ -
	(a)	ਗਿੱਧਾ
	(b)	ਸੰਮੀ
	(c)	ਮਾਹੀਆ
	(d)	ਮਲਵਈ ਗਿੱਧਾ
June	e-202	4 (C-22)

98.	'ਭੁੱਖੇ	ਦੀ ਧੀ ਰੱਜੀ	€	ਵੇਡਾਉਣ ਲੱਗੀ' ਅਖਾਣ ਵਿੱਚ ਖਾਲੀ ਥਾਂ ਤੇ ਸਹੀ ਸ਼ਬਦ ਭਰੋ।						
	(a)	ਧਨ								
	(b)	ਮੌਜ	ਮੌਜ							
	(c)	ਤੋਤੇ	ਤੋਤੇ							
	(d)	ਖੇਹ								
gg.	' и п	ı ਅੱచ-ਕਲ ਕ <u>ੀ</u>	- त्रत्रचे	ਹੋ ?' - ਕਿਹੜਾ ਪੁਰਖ ਹੈ ?						
99.	7/1-0	ୀ ମାନ ସଫୁ ସା	40E	० : - १४०२: यु०४ ० :						
	(a)	ਪਹਿਲਾ ਪੁਰਖ	1							
	(b)	ਦੂਜਾ ਪੁਰਖ								
	(c)	ਤੀਜਾ ਪੁਰਖ	ਤੀਜਾ ਪੁਰਖ							
	(d)	ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕ	≀ਈ ਨਹ	Ť						
100	77) IT	112 4 2 11921	i . A v.	A A ranto						
100.). ਸਮਾਨਾਰਥਕ ਸ਼ਬਦਾਂ ਦੀ ਸੂਚੀ ਮਿਲਾਓ : ਸੂਚੀ I ਸੂਚੀ II									
	A.	ੂਯ 1 ਤਹਿਜ਼ੀਬ		-						
	В.	ਗੌਂ								
	C.	_{ਚੱ} ਸਾ	iii.	ਸੱਭਿਅਤਾ						
	D.	^{ਰੂਜ} ਸੱਜਣਤਾ	iv.	ਮਤਲਬ						
		ਰੋਕਤ 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	e-202	24		(C - 23)						

101.	The	'PGS', with respect to the organic certification, stands for :							
	(a)	Pesticides Governance Scheme	(b)	Paramparagat Gram Scheme					
	(c)	Participatory Governance Service	(d)	Participatory Guarantee System					
102.	The	most common colour of the cultivated g	roun	dnut flowers is :					
	(a)	Yellow	(b)	Pink					
	(c)	Blue	(d)	Red					
103.	Part	icles ranging from 0.01 – 0.03 mm dian	neter	would be considered as					
	(a)	Sand	(b)	Silt					
	(c)	Clay	(d)	Gravel					
104.	Rice	is basically a:							
	(a)	Short day plant	(b)	Long day plant					
	(c)	Day-neutral plant	(d)	Both (b) and (c)					
105.	The	theoretical yield of parent acid from an	activ	re ingredient is termed as					
	(a)	Active equivalent	(b)	Technical ingredient					
	(c)	Acid equivalent	(d)	Acid value					
106.	Whi	ch of the following is/are advantages of	crop 1	rotation ?					
	1.	To reduce the pest and disease incider	ice.						
	2.	To maintain the fertility status of the	soils						
	3.	To keep the weeds under control							
	(a)	1 only	(b)	2 only					
	(c)	1 and 3 only	(d)	1, 2 and 3					
107.	The	Dapog method of raising rice nursery w	as in	troduced in India from					
	(a)	Burma	(b)	Japan					
	(c)	USA	(d)	Philippines					
108.	Whi	ch of the following statement(s) is/are c	orrect	t ?					
	1.	Phenylmercuric acetate (PMA) is a chincrease transpiration.	emica	al used in agriculture crops in order to					
	2.	Enforced dormancy is associated with	deep	er placement of seeds.					
	(a)	1 only	(b)	2 only					
	(c)	Both 1 and 2	(d)	Neither 1 nor 2					

109.	109. Choose the most suitable option:										
	(a)	Commelina benghalensis is a monoc	ot wee	d unlike <i>Crotalaria verrucosa</i>							
	(b)	Crotalaria verrucosa is a monocot w	eed un	like Commelina benghalensis							
	(c)	Both Commelina benghalensis and Crotalaria verrucosa are monocot weeds									
	(d)	(d) Neither Commelina benghalensis nor Crotalaria verrucosa are monocot weeds									
110.	Cho	Choose the correct option:									
	(a)	Hay fever is commonly caused by Ambrosia									
	(b)	Weed introduction from some other part of the world is called Antagonism									
	(c)	Both (a) and (b)									
	(d)	None of the above									
111.	Gold	len rice is a rich source of									
	(a)	Vitamin A	(b)	Vitamin B							
	(c)	Ascorbic acid	(d)	Vitamin K							
112.	Cons	sider the following statements and ch	oose th	ne correct option :							
	1.	CH_4 is released from paddy fields.									
	2.	Pearlmillet can be transplanted.									
	3.	Scientific name of Kodo millet is Pas	spalum	$a\ scrobiculatum$							
	(a)	1 only	(b)	1 and 2 only							
	(c)	2 and 3 only	(d)	1, 2 and 3							
113.	Swe	et corn is :									
	(a)	Zea mays indentata									
	(b)	Zea mays indurata									
	(c)	Zea mays saccharata									
	(d)	Zea mays amylacea									
114.	The	oil content in groundnut seeds is abo	ut	%							
	(a)	45	(b)	25							
	(c)	15	(d)	05							
115.	The	fruit of rapeseed and mustard is know	wn as								
	(a)	Pod	(b)	Caryopsis							
	(c)	Siliqua	(d)	Dutum							
June	-202	4 (C –	25)								
2 31.10		, ,	,								

116.	Nipp	oing 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
117.	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
118.	The	force of attraction that binds the molecules of the same kind is:
	(a)	Adhesion
	(b)	Matric force
	(c)	Cohesion
	(d)	Interface
119.		'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
120.	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

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

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

Booklet Sr. No.		Question Booklet Set
Candidate's Name		
Father's Name		
Date of Birth: D D M M Y Y Y Y		
OMR Response Sheet No	Roll No	
Candidate's Signature : (Please sign in the box)	_	al Questions : 120] Allowed : 2 Hoursl

INSTRUCTIONS

- 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 Ink 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.

(Please sign in the box)

- 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 MOST APPROPRIATE 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. question remains unattempted, there will be no penalty for that question.
- 12. Use of Electronic/Manual Calculator is prohibited.
- 13. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

(D - 1)June-2024

1.	Identify the fauna from the following information:								
	Natu	ure		:	Scavengers				
	Com	mon s	species	:	White rumped, Slender-	Bille	d, Red-headed		
	Com	mon t	threats	:	Use of diclofenac for vet	erina	ry purposes		
	_	Impact of decline : in population			Increased risk of spread of rabies and ill impact on observance of last rites by Parsis in 'Tower of Silence'.				
	(a)	Pygm	y hog						
	(b)	Fores	t Owlet						
	(c)	Sand	piper						
	(d)	Vultu	ıre						
2.		respe		nieven	nents of Indians in the f	ield o	f Science and Technology, match		
		List I					List II		
	1.	Inelas	stic theo	ry of s	scattering	P.	S. Chandrasekhar		
	2.	Work	on stell	ar evo	lution and white dwarfs	Q.	C.V. Raman		
	3.	Contribution to quantum mechanics and development of Bose-Einstein Condensate					S.N. Bose		
	4.	Research on Crescograph and S. J.C. Bose Electromagnetic Waves							
	Cod	e :							
		1	2	3	4				
	(a)	P	Q	\mathbf{R}	S				
	(b)	Q	P	S	R				
	(c)	Q	P	R	S				
	(d)	P	Q	S	R				
3.	Unio						ional Legal Services Authority v. cases are often heard in news in		
	(a)	Man-A	Animal	conflic	et and wildlife conservat	ion			
	(b)	LGBT	'QIA + r	rights					
	(c)	Simul	taneous	s electi	ions to Lok Sabha and S	tate I	Legislatures		
	(d)	Reser	vation b	ased o	on caste				
June	e-202	4			(D-2)				

4.	_	Beginning with Dwarka, Gujarat, if you travel to Jagannath Temple, Puri along the coast, 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								
5.		Bhani, the daughter of Sikh Guru 'X', was married to Sikh Guru 'Y'. 'Z', one of the s of Guru 'Y', was married to Mata Ganga and became guru of sikhs ?								
	(a)	Third								
	(b)	Fourth								
	(c)	Fifth								
	(d)	Sixth								
6.	of I	As per Article 266(1) of Indian Constitution, all revenues received by the Government of India, all loans raised by that government by the issue of treasury bills, loans or ways and means advances and all moneys received by that government in repayment of loan shall form:								
	(a)	Consolidated Fund of India								
	(b)	Contingency Fund of India								
	(c)	Public Account of India								
	(d)	Current Account of India								
7.		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								
Jun	e-202	(D - 3)								

	(c)	Utopian Politics	(d)	Fabian Politics									
9.	Arrange choronologically, the following events of modern history of Punjab: 1. Rajiv-Longowal accord												
	2.	Creation of Ropar division as or	ne of the five	e divisions of Puniab									
	3.	-		·									
	4.	Guru Ka Bagh Morcha	Trifurcation of Punjab including constitution of separate state of Haryana Guru Ka Bagh Morcha										
	(a)	4, 2, 1, 3	(b)	4, 3, 1, 2									
	(c)	3, 4, 1, 2		3, 4, 2, 1									
10.	birtl		agat Singh	at you must pass through, to reach museum at Khatkar Kalan (including									
	(a)	4 (b) 5	(c)	6 (d) 7									
11.	cand	didates drink either one, two or wn that:	r three drin	at Punjab Police Academy. All these alks out of tea, coffee and juice. It is coffee and juice are in Arithmetic									
		Progression in that order.											
	II.	Number of candidates who dri juice are in Arithmetic Progress		coffee, tea and juice, and coffee and order.									
	III.	Number of candidates who da Arithmetic Progression in that	-	ea, only coffee and only juice are in									
	IV. Number of candidates who drink only one drink is two times the number of candidates who drink only two drinks.												
	V.	Number of candidates who drink only two drinks is nine times the number of candidates who drink all the three drinks.											
	How	many candidates drink coffee ?											
	(a)	130	(b)	110									
	(c)	60	(d)	70									
June	e-202	24	(D-4)										

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

8.

personal belief?

(a)

Orwellian Politics

- 12. 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
- 13. 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
- 14. 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.

15. 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

16. Directions (**Question Nos. 16**): The following table provides the details about the number of students in 5 different areas of expertise in MBA over the years.

37	Areas of Expertise in MBA									
Years	Marketing Kinance		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

		eases his speed by 60% and finishes the work in 26 days. Find after how many s did he increase his speed?
	(a)	8
	(b)	9
	(c)	10
	(d)	11
18.	A co	conut tree is taller than a pine tree by 6 meters. A woodcutter starts cutting the
	coco	nut tree from 12 m above the ground so that after the coconut tree falls, its top
	_	touches the bottom of the pine tree. Had he cut the pine tree from 8 m above the
	_	and, the top of the pine tree would have fallen in a way that its top would just have hed 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
19.	How	many two-digit numbers are there such that the product of their digits is a
	perf	ect square greater than 1?
	(a)	18
	(b)	16
	(c)	14
	(d)	12
20.		friends Ram, Rakesh, Ramesh, Rohit and Rupesh are sitting on a round table
		ng the center. Rakesh is sitting to the left of Ram. Rohit is sitting to the right of
		nesh. Ram and Ramesh are sitting next to each other. Where is Rupesh sitting a respect to Rohit?
	(a)	Immediate left
	(b)	Second person to the left
	(c)	Third person to the left
	(d)	Fourth person to the left
	(4)	2 0 002 002 pozzona vo vino 102v
luna	2-202	4 (D - 7)

Paresh can finish a certain piece of work in 35 days at a stretch. But after few days, he

- 21. 'ਨਿੱਕੜੀ ਸੂਈ ਵੱਟਮਾਂ ਧਾਗਾ ਬੈਠ ਕਸੀਦਾ ਕੱਢ ਰਹੀਂ ਆਂ' ਕੀ ਹੈ ?
 (a) ਘੋੜੀ
 (b) ਬੋਲੀ
 (c) ਲੋਰੀ
 (d) ਸੁਹਾਗ
 - 22. 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

23.	. '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							
24.	ਹੇਠ f	ਲੇਖੇ ਵਾਕ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਸਹੀ ਸ਼ਬਦ ਜੁੱਟ ਚੁਣੋ :							
		ਦੀ ਵੰਡ ਨੇ ਦੋਵਾਂ ਭਰਾਵਾਂ ਨੂੰ ਪਹੁੰਚਾ ਦਿੱਤਾ।							
	(a)	ਜੈਦਾਦ, ਕਚਹਿਰੀ							
	(b)	ਜਾਇਦਾਦ, ਕਚੈਹਰੀ							
	(c)	ਜੈਦਾਤ, ਕਚਹਰੀ							
	(d)	ਜਾਇਦਾਦ, ਕਚਹਿਰੀ							
25.	ਹੇਠ f	ਲੇਖਿਆਂ ਵਿੱਚੋਂ ਸਹੀ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਵਾਲਾ ਵਾਕ ਚੁਣੋ :							
	(a)	ਚੰਗਾ ਹੁਣ ਅਸੀ ਚੱਲਦੇ ਹਾ।							
	(b)	ਚੰਗਾ, ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।							
	(c)	(c) ਚੰਗਾ ! ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾਂ।							
	(d)	ਚੰਗਾ; ਹੁਣ ਅਸੀਂ ਚੱਲਦੇ ਹਾ।							
26.	Chry	ysanthemum ਫੁੱਲ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਨਾਂ ਕੀ ਹੈ ?							
	(a)	ਚਮੇਲੀ							
	(b)	ਨਰਗਸ							
	(c)	ਗੁਲਦਾਊਦੀ							
	(d)	ਗੁਲਨਾਰ							
27.	ਪੱਛਮੀ	ੀ ਪੰਜਾਬ ਵਿੱਚ ਸਾਂਦਲਬਾਰ ਦੀਆਂ ਔਰਤਾਂ ਦੇ ਨਾਚ ਦਾ ਨਾਂ ਹੈ -							
	(a)	ਗਿੱਧਾ							
	(b)	ਸੰਮੀ							
	(c)	ਮਾਹੀਆ							
	(d)	ਮਲਵਈ ਗਿੱਧਾ							

	(a)	ਧਨ								
	(b)	ਮੌਜ								
	(c)	ਤੋਤੇ								
	(d)	ਖੇਹ								
29.	'ਆਪ	ਅੱਜ-ਕਲ੍ਹ ਕੀ	ਕਰਦੇ	ਹੋ ?' - ਕਿਹੜਾ	ਪੁਰਖ ਹੈ ?					
	(a)	ਪਹਿਲਾ ਪੁਰਖ								
	(b)	ਦੂਜਾ ਪੁਰਖ								
	(c)	ਤੀਜਾ ਪੁਰਖ								
	(d)	ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋ	ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਨਹੀਂ							
30.	ਸਮਾਨ	ਨਾਰਥਕ ਸ਼ਬਦਾ <u>ਂ</u>	ਦੀ ਸੂਚ	ੀ ਮਿਲਾਓ :						
		ਸੂਚੀ I		ਸੂਚੀ II						
	A.	ਤਹਿਜ਼ੀਬ	i.	ਦੋਸਤੀ						
	B.	ਗੌਂ	ii.	ਜਿਸਮ						
	C.	ਜੁੱਸਾ	iii.	ਸੱਭਿਅਤਾ						
	D.	ਸੱਜਣਤਾ	iv.	ਮਤਲਬ						
	ਉਪਰ	ਕਿਤ ਦਾ ਸਹੀ ਿ	ਮਿਲਾਨ	ਕਰੋ :						
	(a)	A-iii, B-iv,	С-і, І)-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	e-202	4			(D-10)					

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

		List I								List II	
	1.	Autho	r of the	famou	s book	Species P	lantaruı	m'	P.	Carl Linnaeus	
	2.	Propo	sed the	concep	t of 'pla	he first time	Q.	G.H. Shull			
	3.	Coine	d the te	erm 'het	erosis'	for the first	st time		R.	C.M. Donald	
	Co	de:									
		1	2	3							
	(a)	P	Q	\mathbf{R}							
	(b)	\mathbf{R}	Q	P							
	(c)	P	R	Q							
	(d)	R	P	Q							
32.	Co	nsider	the foll	owing s	stateme	ents:					
	1.	The	wheat	grain p	rotein i	is called 'X	?.				
	2.	Initi	ally, th	e potas	sium d	eficiency s	sympton	ns in barley ap	pear	on 'Y'.	
	Ιdε	entify c	orrect p	pair of 2	X and Y	(respectiv	vely)				
	(a)	Zein and Upper leaves									
	(b)	Gluten and Upper leaves									
	(c)	Glycinin and Middle leaves									
	(d)	Glut	en and	Lower	leaves						
33.	If 3	If 30 maize plants are counted in 5 metre of row length and the row spacing is 60 cm									
	wh	at will	be the	popula	tion de	nsity of ma	aize?				
	(a)	50,0	00 plan	nts/ hec	tare		(b)	75,000 plants	s/hec	tare	
	(c)	1,00	,000 pla	ants/he	ctare		(d)	1,25,000 plan	nts/he	ectare	
34.	Flo	oding	kills th	e weeds	s by exc	cluding the	e	from th	eir e	nvironment.	
	(a)	Air					(b)	Water			
	(c)	Nut	rients				(d)	Microbes			
35.	Los	ss of ho	orizonta	al resist	ance to	a plant d	isease d	uring a breedi	ng cy	vcle is	
	(a)	Boo	m and l	oust cyc	ele						
	(b)	Vert	ifolia e	\mathbf{ffect}							
	(c)	Qua	ntitativ	ve resis	tance						
	(d)	Patl	novar								
June	e-20	24				(D –	11)				

Match the following:

31.

36.	Soil	s with	pH < 8	3.5, E	C > 4 dS	\mathbf{m}^{-1}	and ESP	less	than	15 are c	lesignated	as	
	(a)	Salin	e soils				((b)	Alka	li soils			
	(c)	Black	alkal	i soils	3		((d)	Sodi	c soils			
37.	Pick	the co	rrect s	staten	nent:								
	(a)	One s	tanda	rd atı	mospher	e is e	qual to 10	01,3	25 hP	a			
	(b)	One s	tanda	rd atı	mospher	e is e	qual to 10	01.3	25 hP	a			
	(c)	Gene	rally, o	dry ac	liabatic l	lapse	rate per	100	m asc	cent is 9	.8°C		
	(d)	Gene	rally, o	dry ac	diabatic l	lapse	rate per	100	m aso	ent is 0	.98°C		
38.	Con	Consider the following statements and choose the incorrect ones:											
	1.	Wide	ly spac	ced is	obars re _l	prese	nt steep o	chai	nge in	pressur	e		
	2.	Cumu lightr		nbus	clouds	are	associat	ed	with	heavy	rainfall,	thunder	and
	3.	India receives less than normal rainfall under the influence of La Nina.											
	(a)	2 only	7				((b)	3 on	ly			
	(c)	1 and	2 only	y			((d)	1 an	d 3 only			
39.	Match the following entities in list I with corresponding entries in List II:												
		List l						•	-	List II			
	1.	Fathe	er of m	oderr	n organic	agri	culture		P.	. Sir Albert Howard			
	2.	Fathe	er of In	ndian	Plant Pa	athol	ogy		Q.	E.J. Bu	ıtler		
	3.	The fa	ather o	of ext	ension ir	n a gl	obal cont	ext	R.	. B.B. Mundkur			
									S.	Paul L	eagans		
									T.	Sigmui	nd Freud		
	Cod	le :											
		1	2	3									
	(a)	R	Q	P									
	(b)	P	Q	\mathbf{S}									
	(c)	Q	R	\mathbf{S}									
	(d)	Q	R	T									
40.	Yell	ow veii	n mosa	aic of	okra is p	orima	rily trans	smit	ted by	7			
	(a)	Aphio	i				((b)	Whit	te fly			
	(c)	Leaf	hoppei	r			((d)	Nem	atode			

(D-12)

June-2024

41.	Cho	ose the correct match:			
	(a)	Mancozeb and Thiram	:	Systemic fungici	des
	(b)	Glyphosate	:	Selective contact	t herbicide
	(c)	Carbendazim	:	Systemic fungici	de
	(d)	Glyphosate	:	Nonselective con	atact herbicide
42.	Fern	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
43.	Crop	o rotations are effective i	in (controlling	
	(a)	Crop bound weeds but	no	t crop associated	weeds
	(b)	Both crop bound weeds	aı	nd crop associated	l weeds
	(c)	Crop associated weeds	bu	t not crop bound	weeds
	(d)	Neither crop bound wee	eds	s nor crop associa	ted weeds
44.	The	bio-agent useful for man	ıag	ging water hyacin	th is
	(a)	Bactra sp.		(b)	Cyrtobagous salviniae
	(c)	Neochetina bruchi		(d)	Dactylopius sp.
45.	Cho	ose the correct options :			
	1.	First herbicide-resistar	nt v	weed in the world	: Amaranthus sp.
	2.	First herbicide-resistar	nt v	weed in the world	: Senecio vulgaris
	3.	Zea mays ceratina is flo	oui	corn	
	4.	Zea mays ceratina is wa	ax	y corn	
	(a)	1 and 3 only		(b)	2 and 3 only
	(c)	1 and 4 only		(d)	2 and 4 only
46.	Cons	sider the following state	me	ents and choose th	e correct options :
	1.	Leaf reddening in cotto	n i	is due to deficienc	y of Mg.
	2.	Leaf reddening in cotto			y of Zn and Ca.
	3.	Diamond back moth is	_	•	.1
	4.	Diamond back moth is	a p	pest of pulses and	oil seeds.
	(a)	1 and 3 only		(b)	2 and 4 only
	(c)	1 and 4 only		(d)	2 and 3 only

47.	The	Bhopal Gas Tragedy was due the leak	age of	gas.
	(a)	Hexane	(b)	Methane
	(c)	Methyl thiocyanate	(d)	Methyl isocyanate
48.		wo chemicals, A and B have LD ₅₀		
		ectively, 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
49.		ch of the following is the most suitab	ole con	mbination related to the requirements
	(a)	Summer season; black polythene; mo	ist soi	1
	(b)	Winter season; black polythene; dry s	soil	
	(c)	Summer season; transparent polythe	ne; m	oist soil
	(d)	Summer season; transparent polythe	ne; dr	y soil
50.	Amo	ong the following, which group of eleme	ents is	s immobile in plants:
	(a)	Ca, Cu, B, Fe	(b)	Cu, Mn, Mg, B
	(c)	Ca, N, K, S	(d)	S, Cu, Mg, B
51.	Whi	ch among the following is known as th	e "Qu	een of Oilseeds" ?
	(a)	Groundnut	(b)	Sesame
	(c)	Sunflower	(d)	Mustard
52.	Whi	ch type of earthworm is useful for verr	nicom	posting?
	(a)	Epigeic	(b)	Mesogeic
	(c)	Endogeic	(d)	Endogeic or Mesogeic
53.	1.	Central Soil Salinity Research Institu	ite is l	located at X.
	2.	The first KVK in India was established	ed in I	1974 at Y.
	Iden	tify X and Y.		
	(a)	Karnal and Puducherry respectively		
	(b)	Bathinda and Ahmedabad respective	ly	
	(c)	Hyderabad and Delhi respectively		
	(d)	Jaipur and Kolkata respectively		

(D-14)

June-2024

	(a)	The largest source of irriga	ation in India is c	canals							
	(b)	Sunflower is a cross polling	ated crop								
	(c)	Deep ploughing is recommended twice for every season									
	(d)	World Wetlands Day is cel	ebrated on $21^{ m st}$ N	March							
55.	Amo	Among the following, which crop has the highest water requirement in general?									
	(a)	Wheat	(b)	Cotton							
	(c)	Sugarcane	(d)	Rye							
56.	Author of the book 'The Road Back to Nature : Regaining the Paradise Lost' is										
	(a)	Rachel Carlson									
	(b)	Subhash Palekar									
	(c)	Yoshikazu Kawaguchi									
	(d)	Masanobu Fukuoka									
57.		The process of dissolution and removal of sesquioxides from A horizon and their deposition in B horizon is called :									
	(a)	Podzolisation									
	(b)	Laterisation									
	(c)	Humification									
	(d)	Calcification									
58.	The	The phosphorus fixing capacity of clay minerals may be found in order:									
	(a)	Vermiculite > Illite > Mont	tmorillonite > Mu	ıscovite							
	(b)	Montmorillonite > Vermice	ulite > Kaolinite :	> Muscovite							
	(c)	Muscovite > Illite > Montn	norillonite > Vern	miculite							
	(d)	Illite > Montmorillonite > Muscovite > Vermiculite									
59.	The	organic matter content (%)	of soil with $1.3~\%$	organic carbon is :							
	(a)	2.60	(b)	1.95							
	(c)	0.65	(d)	2.24							
60.	Amo	ong the following, which cro	p yields leaf fibre	·:							
	(a)	Jute	(b)	Cotton							
	(c)	Agave	(d)	Mesta							
June	-202	4	(D – 15)								

54. Pick the correct statement :

61.	Con	sider the following statements and choos	e th	e c	orrect option :							
	1. Uranyl acetate stain is used in electron microscopy											
	2.	Etiology is study of cause of disease										
	3.	Etiology is study of symptom of disease										
	4.	Phyllody is development of floral organ	s in	to 1	eaf-like structures							
	(a)	1, 2 and 4 only	(b)	1,	3 and 4 only							
	(c)	1 and 3 only	(d)	2	only							
62.	Fill	in the blanks choosing suitable entities f	rom	th	e options given below :							
	1.	Muriate of potash is not recommended	for _	X								
	2.	A bacterium capable of mobilising pota	ssiu	m i	s <u>Y</u>							
	X ar	nd Y are (respecitvely):										
	(a)	Tobacco and Frateuria aurantia										
	(b)	Rice and Azotobacter chroococcum										
	(c)	Coconut and Azospirillum lipoferum										
	(d)	Maize and Piriformospora indica										
63.	Cho	ose the correct statement										
	(a)	Of the pigeon pea, soybean, green gra- oil content	m a	nd	castor, castor contains the highest							
	(b)	Of the groundnut, mustard, cotton and linoleic acid	d s	affl	ower, mustard contains maximum							
	(c)	Both (a) and (b)										
	(d)	None of the above										
64.	Match the following entities in List I from entities of List II:											
		List I			List II							
	1.	Insecticide Act was passed in the year	I	Ρ.	1968							
	2.	In India, the MRL is fixed by	(Q .	1998							
			I	₹.	CODEX							
			S	S.	FSSAI							
				Г.	ICAR							
	Cod	lo .										
	Coo	1 2										
	(a)	P R										
	(b)	P S										
	(c)	Q R										
	(d)	Q T										
	(•)	~v ~										

65.	Saffl	ower in India is usually grown dur	ing:	
	(a)	Rabi season		
	(b)	Kharif season		
	(c)	Zaid season		
	(d)	Rabi, kharif and zaid seasons		
66.	Com	pared to popular rice varieties, 'DI	RR Dhan	48' and 'DRR Dhan 49' contain higher
	level	s of:		
	(a)	Iron		
	(b)	Zinc		
	(c)	Boron		
	(d)	Molybdenum		
67.	1.	High yielding dwarf varieties of w	heat were	e developed by X
	2.	The term 'Evergreen Revolution' h	nas been g	given by Y
	Iden	tify X and Y (respectively):		
	(a)	Dr. M. S. Swaminathan and Dr. I	R. S. Paro	da
	(b)	Dr. R. S. Paroda and C. T. Patel		
	(c)	Dr. N. E. Borlaug and Dr. M. S. S	waminath	nan
	(d)	Dr. B. P. Pal and Dr. R. S. Paroda		
68.	relea	· ·		ew crop type intentionally bred and with coining of the term 'cultivar' in
	(a)	L.H. Bailey	(b)	M.S. Swaminathan
	(c)	John Ray	(d)	A.P. de Candolle
69.	"Tun	ngro virus" of rice is usually transm	itted by:	
	(a)	Gundhy bug	(b)	Gall midge
	(c)	Army worm	(d)	Green leaf hopper
70.		t would be the harvest index of ric 5 tonnes/ha?	e if grain	yield is 3.5 tonnes/ha and straw yield
	(a)	35%	(b)	45%
	(c)	54%	(d)	65%
June	e-202	4 (D	– 17)	

71.	The	'PGS', with respect to the organic certification	ficatio	on, stands for :						
	(a)	Pesticides Governance Scheme	(b)	Paramparagat Gram Scheme						
	(c)	Participatory Governance Service	(d)	Participatory Guarantee System						
72.	The	most common colour of the cultivated g	groun	dnut flowers is :						
	(a)	Yellow	(b)	Pink						
	(c)	Blue	(d)	Red						
73.	Part	ticles ranging from 0.01 – 0.03 mm diar	neter	would be considered as						
	(a)	Sand	(b)	Silt						
	(c)	Clay	(d)	Gravel						
74.	Rice	e is basically a :								
	(a)	Short day plant	(b)	Long day plant						
	(c)	Day-neutral plant	(d)	Both (b) and (c)						
75.	The	theoretical yield of parent acid from an	activ	ve ingredient is termed as						
	(a)	Active equivalent	(b)	Technical ingredient						
	(c)	Acid equivalent	(d)	Acid value						
76.	Whi	ch of the following is/are advantages of	crop	rotation?						
	1. To reduce the pest and disease incidence.									
	2.	To maintain the fertility status of the	soils							
	3.	To keep the weeds under control								
	(a)	1 only	(b)	2 only						
	(c)	1 and 3 only	(d)	1, 2 and 3						
77.	The	Dapog method of raising rice nursery v	vas in	troduced in India from						
	(a)	Burma	(b)	Japan						
	(c)	USA	(d)	Philippines						
78.	Whi	ch of the following statement(s) is/are o	orrec	t ?						
	1.	Phenylmercuric acetate (PMA) is a chincrease transpiration.	emica	al used in agriculture crops in order to						
	2.	Enforced dormancy is associated with	deep	er placement of seeds.						
	(a)	1 only	(b)	2 only						
	(c)	Both 1 and 2	(d)	Neither 1 nor 2						

	(a)	d unlike <i>Crotalaria verrucosa</i>					
	(b)	Crotalaria verrucosa is a monocot weed unlike Commelina benghalensis					
	(c)	Both Commelina benghalensis and Crotalaria verrucosa are monocot weeds					
	(d)	Neither Commelina benghalensis nor	Croto	alaria verrucosa are monocot weeds			
80.	Choose the correct option:						
	(a)	Hay fever is commonly caused by Am	brosia	a			
	(b)	Weed introduction from some other part of the world is called Antagonism					
	(c)	Both (a) and (b)					
	(d)	None of the above					
81.	Gold	den rice is a rich source of					
	(a)	Vitamin A	(b)	Vitamin B			
	(c)	Ascorbic acid	(d)	Vitamin K			
82.	Con	sider the following statements and cho	ose th	ne correct option :			
	1.	CH_4 is released from paddy fields.					
	2.	Pearlmillet can be transplanted.					
	3.	Scientific name of Kodo millet is Pasp	alum	scrobiculatum			
	(a)	1 only	(b)	1 and 2 only			
	(c)	2 and 3 only	(d)	1, 2 and 3			
83.	Swe	et corn is :					
	(a)	Zea mays indentata					
	(b)	Zea mays indurata					
	(c)	Zea mays saccharata					
	(d)	Zea mays amylacea					
84.	The	oil content in groundnut seeds is about	t	%			
	(a)	45	(b)	25			
	(c)	15	(d)	05			
85.	The	fruit of rapeseed and mustard is know	n as				
	(a)	Pod	(b)	Caryopsis			
	(c)	Siliqua	(d)	Dutum			

79. Choose the most suitable option :

86.	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		
87.	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		
88.	The	force of attraction that binds the molecules of the same kind is:		
	(a)	Adhesion		
	(b)	Matric force		
	(c)	Cohesion		
	(d)	Interface		
89.	The 'Leaf colour chart' (LCC) is used for judging the amount of nitrogen application to the standing crop(s) of which of the following ?			
	(a)	Gram and mustard		
	(b)	Rice		
	(c)	Mustard and sorghum		
	(d)	Sorghum and gram		
90.	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		

(D - 20)

June-2024

91.	Con	sider	the following statements:		
	1.	'Pai	inted Bug' causes damage to Mustard		
	2.	Asc	ochyta blight is a fungal disease of Ch	ickpe	a
	3.	Inse	ect 'Fall army worm' generally prefers	to at	tack the Maize crop
	4.	'BL	-43' and 'BL-42' are the varieties of Ba	arley	
	Cho	ose tl	he 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		
92.	Fill	in th Lis	e blanks in List I from List II (Choose t I	the n	nost appropriate option) List II
	1.		optimum seed rate for sowing one tare of pearl millet is : X	P.	70-80 Kg
	2.	The	e optimum seed rate for timely sown dpea crop (for 1 hectare) is: _Y_	Q.	7-8 Kg
			.ped 010p (101 1 11000010) 12 1	R.	40-50 Kg
				S.	4-5 Kg
	X ar	nd Y	are respectively :		
	Cod	le:			
		X	Y		
	(a)	P	R		
	(b)	Q	S		
	(c)	R	Q		
	(d)	\mathbf{S}	P		

- **93.** 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
 - $(c) \quad \text{Increase in redox potential of the soil} \\$
 - (d) Decrease in redox potential of the soil

94.	 Choose the correct statements : In honey bee colony, the worker bee is Fertile male. In honey bee colony, the worker bee is Unfertile female. 						
	3.	Insects with single pair of membra halters belong to Diptera order.					
	4.	Insects with single pair of membra halters belong to Lepidoptera order.	nous	wings and hind pair modified into			
	(a) (c)	1 and 3 only 2 and 4 only	(b) (d)	2 and 3 only 1 and 4 only			
95.		poitory activity of one plant species comports on the seed germination or growth Antibiosis					
	(c)	Allelopathy	(d)	Negativism			
96.	-	process of breaking, scratching or mech neable to water and gases is called as :	nanica	al abrasion of the seed coat to make it			
	(a) (c)	Chopping Solidification	(b) (d)	Notching Scarification			
97.	Wha	t quantity of nitrogen can be supplied k	y 300	O kg diammonium phosphate (DAP) ?			
	(a) (c)	45 kg 90 kg	(b) (d)	54 kg 120 kg			
98.	Whic	ch of the following expressions is used t	o calc	culate real value of seed ?			
	(a) [Purity (%) \times Germination (%)] / 100						
	(b)	[Purity (%) × (100)] / Germination (%)					
	(c)	[Germination (%) \times (100)] / Purity (%)					
	(d)	[Purity (%) × Germination (%)] × 100					
99.	Cons	sider the following statements :					
	1. India is largest producer of Potassium fertilizer in the world.						
	2. Blind hoeing is possible in Sugarcane.						
	3.	When primary tillage is completely av		, c			
	seedbed preparation in the row zone only, it is known as Zero tillage. Which of these statements are incorrect?						
	(a)	1 only	(b)	3 only			
	(c)	1 and 2 only	(d)	2 and 3 only			
100.	Acid	soils are generally found and formed in	ı:				
	(a)	Humid regions with high rainfall					
	(b)	Arid regions with low rainfall					
	(c)	Semi-arid regions with less rainfall					
	(d)	Either (b) or (c)					

101.	nutrients' category?		
	(a)	Primary nutrients	
	(b)	Secondary nutrients	
	(c)	Micronutrients	
	(d)	C, H and O	
100	a		
102.		sider 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	
	Choo	\mathbf{p} se the correct statement(\mathbf{s}):	
	(a)	1 only	
	(b)	1 and 2 only	
	(c)	1 and 3 only	
	(d)	2 and 3 only	
103.	Choo	ose 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)	
104.	For 1	Punjab, 'Rice (short duration) – Vegetable Pea – Wheat – Mungbean' rotation is an	
	exan	aple of:	
	(a)	One-year rotation	
	(b)	One and half-year rotation	
	(c)	Half-year rotation	
	(d)	Two-year rotation	
105.	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	
June	-202	4 (D-23)	

106.		Which one of the following nitrogenous fertilizers is not included in the Fertilizer Control Order (FCO) of India ?				
	(a)	Ammonium sulphate				
	(b) Calcium Ammonium Nitrate					
	(c)	Ammonium nitrate				
	(d)	All of the above				
107.	Base	ed upon morphological features, weeds	have	been classified into grassy, sedges and		
	broa	dleaf groups. The sedges belong to the	plant	family:		
	(a)	Poaceae				
	(b)	Asteraceae				
	(c)	Graminae				
	(d)	Cyperaceae				
108.			chinc	ochloa colona belong to the following		
	_	group of plants:				
	(a)	CAM plants	(b)	C ₄ plants		
	(c)	C_3 plants	(d)	Dicot plants		
109.	If on	a 20-acre farm, crops are raised on 15	5 acre	es in kharif (rainy season), 15 acres in		
	rabi	(winter season) and 20 acres in zaid (su	umm	er) during one year, what would be the		
	cropping intensity of the farm?					
	(a)	150%	(b)	250%		
	(c)	350%	(d)	500%		
110.	"Wei	rs" and "Flumes" are primarily used to	:			
	(a)	Measure refractive index of water				
	(b)	Measure the viscosity of water in the f	äeld			
	(c)	Measure the density of water in the ch	anne	<u>.</u>]		
	(d)	Measure the water flow in the channel	1			

111.	Whi	ch one of the following is the correct par	r of s	sulphur containing amino acids?
	(a)	Cysteine and lysine		
	(b)	Cysteine and leucine		
	(c)	Cysteine and methionine		
	(d)	Cysteine and isoleucine		
112.	The	"Bangalore process" of anaerobic compo	sting	g was developed by :
	(a)	Albert Howard	(b)	C.N. Acharya
	(c)	P.N. Arya	(d)	Robert Howard
113.	Choo	ose the most suitable option:		
	(a)	Sorghum grain is considered as Caryo	psis.	
	(b)	Ergot or sugary disease of sorghum is	prim	arily caused by <i>Gleocercospora sorgh</i> i.
	(c)	Both (a) and (b)		
	(d)	Neither (a) nor (b)		
114.		e optimum sowing time of chickpea in the North India under the irrigated condition		
	is:			
	(a)	First fortnight of October		
	(b)	Second fortnight of October		
	(c)	First fortnight of December		
	(d)	Second fortnight of November		
115.	"LL	1373" and "LL 931" are the varieties of	:	
	(a)	Kabuli chickpea		
	(b)	Desi chickpea		
	(c)	Linseed		
	(d)	Lentil		

(D-25)

June-2024

116.	Cons	sider the following statements about Soybean and choose the correct option:
	(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
117.	Out	'sterility mosaic' disease of pigeonpea is caused by X; and, of Sand, Peat and Clay, Y has highest Soil bulk density. Identify X and Y pectively):
	(a)	Virus and clay
	(b)	Bacteria and clay
	(c)	Nematode and peat
	(d)	Virus and sand
110		
118.		state with highest production of green gram (mungbean) in India and country highest production of pigeonpea in the world are respectively:
	(a)	Punjab & India
	(b)	Rajasthan & India
	(c)	Madhya Pradesh & China
	(d)	Uttar Pradesh & China
	(u)	Ottai i radesii & Oilina
119.	"Car	nola" refers to the cultivars of Oilseed rape in Canada. The seeds of "Canola"
		ıld contain :
	(a)	<20% erucic acid (b) >20% erucic acid
	(c)	>2% erucic acid (d) <2% erucic acid
120.		dery mildew of pea and Dropsy disease in human beings may respectively be ed 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
June	-202	4 (D-26)

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