Plant Biotech.

1170

(Signature of Invigilator)

11P/287/6

Set No:	(1)		G	Question Booklet No					
	( To be	filled up by the	e candidate t	y <b>blue / blac</b>	ck ball-poi	nt pen )			
Roll No.	<del></del>								
Roll No. (Write the digi	its in words),			<u> </u>		<b>.</b>			

#### INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing in case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.
- 7. Any changes in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. Each question in this Booklet is followed by four alternative answers. For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in Ink cannot be changed, if you do not wish to attempt a question leave all the circles in the corresponding row blank (such question will be awarded zero marks).
- For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- Deposit only OMR Answer Sheet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

[ उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गए हैं ]

Total No. of Printed Pages: 17

Serial No. of Answer Sheet.....

Day and Date.....

# No. of Questions / प्रश्नों की संख्या : 120

Tim	e/समय :	2 Hours/घण्टे ]	[Full Marks/पूर्णाक : 36						
Not	<b>e</b> : (1)	marks. One mark will	s as you can. Each question carries 3 (Three) be deducted for each incorrect answer. I for each unattempted question.						
			। का प्रयत्न करें । प्रत्येक प्रश्न <mark>3 (तीन)</mark> अंक का है । <b>क अंक काटा जायेगा</b> । प्रत्येक अनुत्तरित प्रश्न का						
	(2)	If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.							
		यदि एकाधिक वैकल्पिक उत्तर दें।	प्रही उत्तर के निकट प्रतीत हो, तो निकटतम सही उत्तर						
1. Enzyn		nes are substances which							
	(1)	Stops the reaction	(2) Change the reaction						
	(3)	Catalyze the reaction	(4) Begin the reaction						
2.	Enzyn	me amylase is produced by							
	(1)	Rhizopus sexualis	(2) Aspergillus oryzae						
	(3)	Cercospora personata	(4) Fusarium oxysporum						
3.	Shorea	belongs to family							
	(1)	Dipterocarpaceae	(2) Verbenaceae						
	(3)	Anacardiaceae	(4) Rubiaceae						
			(1) (Turn Over)						

4.	Name the protein present in bacterial flagella?								
	(1) Fi	mbrilin (2) Tyrosine	(3) Lectin (4) Flagellin						
5.	Syster	nic fungicide is							
	(1)	Zineb	(2) Dinocap						
	(3)	Terrazole	(4) Burgundy mixture						
6.	Which	h one of the following pteridop	hyte possess synangium?						
	(1)	Ophioglossum	(2) Equisetum						
	(3)	Psilotum	(4) Lepidodendron						
7.	The d	riving force of ecosystem is							
	(1)	Solar energy	(2) Biomass						
	(3)	Producer	(4) Carbohydrates						
8.	Ribos	somes consist of							
	(1)	Protein and DNA	(2) Protein and RNA						
	(3)	RNA and DNA	(4) Protein, RNA and DNA						
9.	Wart	disease of potato is caused by							
	(1)	Synchytrium sesami	(2) Synchytrium rhytzic						
	(3)	Synchytrium trichosantheoid	les (4) Synchytrium endobioticum						

10.	Dea	mination is due t	ο						
	(1)	Acriflavin		(2)	2-Aminopur	ine			
	(3)	Nitrogen mus	tard	(4)	Nitrous acid	l			
11.	Tris	omy is denoted b	у						
	(1)	2n – 1	(2) $2n + 1$	(3)	2n-1-1	(4) 2n + 2			
12.	Ove	rlapping gene is r	eported in						
	(1)	Qβ	(2) HIV	(3)	CaMV	(4) h3			
13.	Enzymes are								
	(1)	Lipid act as bio	logical componen	t wit	h catalytic pr	operties			
	(2) Polypeptide chain without catalytic property								
	(3) Protein as biological catalyst								
		Protein	- ,						
14.	Toru	la stage occur in							
	(1)	Mucor (2	) Rhizopus	(3)	Agaricus (	(4) Saccharomyces			
15.	Coe	nobial alga is							
	(1)	Oedogonium (	(2) Anacystis	(3)	Microcystis	(4) Hydrodictyon			
16.	Dura	ation of mitotic p	hase is						
	(1)	2 hr	(2) 1 hr	(3)	3 hr	(4) 30 second			
			(3)			(Turn Over)			

17.	5-ca	arbon sugar is						
	(1)	Galactose	(2) Xylose	(3)	Fructose	(4)	Mannose	
18.	Sho	rt-day plant is						
	(1)	Mirabilis	(2) Hyoscy amus	(3)	Pisum	(4)	Xanthium	
19.	Causal organism of white rust is							
	(1)	Fusarium	(2) Erysiphe	(3)	Albugo	(4)	Peronospora	
20.	Medullary vascular bundles are present in							
	(1)	Boerhaavia	(2) Nyctanthes	(3)	Bignonia	(4)	Salvadora	
21.		ich of the followition?	wing is a correct	repr	esentation (	of er	nzyme catalyzed	
	(2) (3)	$E+S \rightarrow ES \rightarrow$ $E+S \rightleftharpoons ES \rightarrow$ $ES \rightleftharpoons E+P$ $E \rightarrow E+S \rightarrow$	E+P					
22.	Reto	ort cells are found	l in					
	(1)	Funaria	(2) Adiantum	(3	3) Sphagnu	n (	(4) Azolla	
23.	Cora	alloid root presen	ıt in					

(1) Pentoxylon (2) Gnetum (3) Zamia (4) Taxus

(Turn Over)

24.	Carrageenin is derived from								
	(1)	Fucus	(2)	Gigartina	(3	3)	Gelidium	(4)	Laminaria
25.	The ca	ambium whic	h pro	duce cork is l	known	as			
	(1) P	helloderm	(2)	Periblem	(	3)	Periderm	(4)	Phellogen
26.	Whic	ch set of gene	tic co	de act as non	sense	co	don?		
	(1)	UAC, UAU	, UG	3	(2)	UA	AA, UAG, UC	ЗA	
	(3)	UAU, UAC	, UG	C	(4)	UC	GG, UAU, U	AC	
27.	Vector pBR322 has resistance genes for								
	<ol> <li>Tetracycline and Ampicillin</li> <li>Streptomycin and Trimethoprim</li> <li>Tetracycline and Penicillin</li> <li>Griseofulvin and Chloramphenicol</li> </ol>								
28.	Caus	al organism o	f leaf	spot of rice	is				
	(1)	Helminthos	sporii	ım oryzae	(2)	Ai	lternaria sol	ani	
	(3)	Pyricularia	ory:	gae	(4)	$F\iota$	usarium udu	m	
29.	Radio	labelled prob	e whi	ch is commo	nly use	ed i	is		
	(1)	<sup>35</sup> S	(2)	<sup>125</sup> I	(3)	<sup>3</sup> H	I	(4)	<sup>32</sup> P
30.	Ajma	alicin is derive	ed fro	m					
	(1)	Васора то	nniei	i	(2)	C	entella asiat	ica	
	(3)	Clitoria tei	rnate	a	(4)	C	atharanthus	rose	us

(5)

31.	Mevalonic acid helps in biosynthesis of								
	(1)	ABA	(2) GA	(3)	IAA	(4) BAP			
32.	Ovu	lation in vertebra	ates is induced by						
	(1)	LTH	(2) LH	(3)	Insulin	(4) Oxytocin			
33.	IFN	-γ is produced by							
	(1)	T-lymphocytes	(2) Leucocytes	(3)	Fibroblas	ts (4) RBC			
34.	. Polygalacturonase is involved in								
	(1) Cellulose degradation			(2) I	(2) Phosphate solubilization				
	(3) Pectin degradation			(4) \$	Starch solub	ilization			
35.	Gua	nyl transferase is	s involved in						
	(1)	Capping		(2) Shifting of polypeptide chain					
	(3)	Movement o	f ribosome	(4) Formation of polyribosome					
36.	Clea	vage polyembry	ony is reported in						
	(1)	Citrus	(2) Casuarina	(3)	Brassica	(4) Mangifera			
37.	Exa	mple of biopoly	mer is						
	(1)	Cellulose	(2) Xanthan	(3)	Starch	(4) Sucrose			
38.	Nitr	osolobus is a							
	(1)	Nitrogen fixi	ng bacterium	(2) H	Hydrogen ba	acterium			
	(3)	Nitrifying ba	cterium	(4) \$	Sulphur bact	terium			

(6)

39.		Which cytogenetic phenomenon is indicated by a $F_2$ phenotypic ratio of 7:1:1:7?						
	(1)	Epistasis	(2) Crossingover	(3)	Linkage	(4) D	uplication	
40.	Cau	sal organism of	little leaf of brinjal	lis				
	(1)	Nematode	(2) Bacteria	(3)	Virus	(4) M	ycoplasma	
41.	Aule	osira is a						
	(1)	Unicellular fila	mentous cyanobac	eteria				
	(2)	Multicellular f	ilamentous non he	terocys	stous blue g	reen alga	ì	
	(3)	Multicellular f	ilamentous heteroc	ystous	cyanobacte	eria		
	(4) Unicellular colonial cyanobacteria							
42.	Clul	moss is commo	only known as					
	(1)	Lycopodium	(2) Selaginella	(3)	Equisetun	n (4)	Pentoxylon	
43.	Tro	phic levels are fo	ormed by					
	(1)	Only plants		(2) O	nly animals	<b>S</b>		
	(3)	Only carnivo	ores	(4) O	rganisms li	nked in i	food chain	
44.	Leal	kage of electroly	te from cell is due	to the	activity of			
	(1)	Toxin	(2) Protease	(3)	Lipase	(4)	Cellulase	
45.	Zear	ralenone is produ	uced by the species	of				
	(1)	Penicillium	(2) Fusarium	(3)	Alternario	a (4)	Aspergillus	
			(7)				(Turn Over)	

46.	Puff region is present in									
	(1) B chromosome	(2) Lampbrush chromosome								
	(3) Polytene chromosom	ne (4) X-Chromosome								
47.	Dinitrophenol disturbs respin	ration by preventing								
	(1) Oxidative phosphoryl	ation (2) DNA transcription								
	(3) Mitochondrial lysis	(4) Anoxia								
48.	Yolk sac is not found in									
	(1) Amphioxus (2) Chi	ck (3) Birds (4) Mammals								
49.	Taq DNA polymerase isolate	d from								
	(1) Thermus aquaticus	(2) Thermus inequalis								
	(3) Bacillus amyloliquef	aciens (4) Bacillus thuringiensis								
50.	DNA methylation is respons	ible for								
	(1) Mutation	(2) Gene silencing								
	(3) DNA replication	(4) SOS Repair								
51.	The intron splicing studied in	detail by								
	(1) Marshall Nirenberg	(2) Matthew Meselson								
	(3) Thomas Ceek	(4) Haragobind Khurana								
52.	Chromosome rings are forme	d during								
	(1) Translocation (2) Inve	ersion (3) Duplication (4) Delition								

53.	Citr	us canker is cau	sed by			
	(1)	Xanthomona	is oryzae	(2) X	(anthomonas	citri
	(3)	Xanthomono	is malvacearum	(4)	Venturia inaeq	nualis
54.	Nar	ne the unusual b	ase found in the nu	cleic a	cid of T <sub>4</sub> DNA	
	(1)	5-hydroxy m	ethylcytosine	(2) D	hydrouridine	
	(3)	Inosine		(4) P	seudouridine	
55.	Naro	cotics are obtain	ed from			
	(1)	Digitalis	(2) Aconitum	(3)	Papaver	(4) Atropa
56.	Chlo	orophyll molecu	les contain			
	(1)	Mn	(2) Mg	(3)	Cu	(4) Fe
57.	Spor	re bearing struct	ure in <i>Ophioglossi</i>	<i>ım</i> is kı	nown as	
	(1)	Spike	(2) Sporangium	(3)	Prothallus	(4) Sporophyll
58.	Whi	ch histone is abs	sent in nucleosome	core		
	(1)	$H_2$	(2) H <sub>3</sub>	(3)	$H_4$	(4) H1
59.	Aci	d rain is mainly	caused by increase	d conc	entration of	
	(1)	Ozone and de	ust	(2) C	O and CO <sub>2</sub>	
	(3)	NO <sub>2</sub> and SO <sub>2</sub>		(4) N	H <sub>3</sub> and CH <sub>4</sub>	
60.	Whi	ch group of plan	ts has to face phys	iologic	al dryness	
	(1)	Halophytes	(2) Lithophytes	(3)	Epiphytes	(4) Hydrophytes
			(9)			(Turn Over)

61.	Stall	ked pyrenoids ar	e found in the alg	a				
	(1)	Anabaena	(2) Volvox (	3) 3	Sap	rolegnia	(4)	Ectocarpus
62.	Prog	ressive evolutio	n theory of Bryop	phyte	e is j	proposed b	у	
	(1)	Wettestein	(2) Cavers (	(3) I	Eva	ns	(4)	Harris
63.	Mat	uration of sperm	takes place in					
	(1)	Vas efferens		(2)	) V	as deferen	S	
	(3)	Epididymis		(4)	) Se	eminal ves	icle	
64.	Mide	dle ear contain						
	(1)	Incus	(2) Radius	(	(3)	Humurus		(4) Ulna
65.	Lute	inizing Hormon	e secreated from					
	(1)	Pancreas	(2) Pituitary	(	(3)	Thyroid		(4) Gonad
66.	Plug	ging of vessels i	s caused by					
	(1)	Verticillium	(2) Phytophthol	ra (	(3)	Albugo	(	(4) Peronospora
67.	Angi	iospermic type le	eaf present in					
	(1)	Ephedra	(2) Taxus	(	(3)	Gnetum		(4) Ginkgo
6 <b>8.</b>	Amp	hiphloic siphon	ostele is present is	n				
	(1)	Pteris	(2) Psilotum	(	(3)	Adiantum	! (	4) Lycopodium
			(10	)				(Continued)

69.	Name the interaction of gene that gives the ratio 15:1 in $F_2$ generation						
	(1)	Duplicate ger	ne	(2) C	omplementa	ry gene	
	(3)	Inhibitory ge	ne	(4) E	pistasis		
70.	Cell	lulose degrading	fungus is				
	(1)	Chaetomium	(2) Fusarium	(3)	Alternaria	(4) Agaricus	
71.	Nan	ne a microalga w	idely known as a s	ource o	of protein		
	(1)	Anacystis	(2) Pandorina	(3)	Spirullina	(4) Aphanothece	
72.	Anti	HIV drug is					
	(1)	Methotrexate	(2) Azidothymid	ine (3)	Bleomycin	(4) Kethoxal	
73.	Call	lose is composed	i of				
	(1)	D-Glucopyran	ose. (2) D-erythi	rose (	3) D-fructos	e (4) L-sarbose	
74.	Inuli	in is found in					
	(1)	Chickpea	(2) Potato	(3)	Dahlia	(4) Pea	
75.	Caly	ptrogen is prese	nt in				
	(1)	Amaryllis	(2) Casuarina	(3)	Oryza	(4) Zea mays	
76.	Acti	ve cell division o	can be seen in				
	(1)	Cambium	(2) Pith	(3)	Pericycle	(4) Cortex	
77.	Cruc	ciate płakea stage	eis				
	(1)	2 celled	(2) 4 celled	(3)	8 celled	(4) 16 celled	
			(11)			(Turn Over)	

78,	The tautomer of Thymine pairs with					
	(1)	Adenine	(2) Guanine	(3)	Cytosine	(4) Thymine
<b>79.</b>	The	planktonic form	s of plants are			
	(1)	Autotrophs	(2) Heterotrophs	s (3)	Chemotrophs	s (4) Insectivores
80.	Aero	osol pollutants p	resent in the jet p	lane em	ission is	
	(1)	Sulphur diox	ide	(2) F	lurocarbon	
	(3)	Carbon tetrac	chloride	(4) C	arbon monoxi	de
81.	Com	mercially availa	ble biofertilizer ni	itrazina	contains	
	(1)	Rhizobium	(2) BGA	(3) Az	otobactor	(4) Azospirillum
82.	Syp	hilis is caused by	,			
	(1)	Haemophilu	s ducreyi	(2) T	reponema pal	lidum
	(3)	Staphylococo	cus aureus	(4)	hlamydia taci	homatis
83.	The hormone involved in the metamorphosis of tadpole is					
	(1)	Thyroxine	(2) TSH (	(3) Prol	actin (4	4) Somatotrophin
84.	TDZ	Z used as a				
	(1)	Gibberellic a	cid	(2) A	uxin	
	(3)	Cytokinin		(4) G	rowth inhibite	or

(12)

(Continued)

(Turn Over)

85.	What is phytochrome?						
	(1)	Growth hormo	one (2) Carbohy	ydrate	(3) Enzyme	(4	) Pigment
86.	Orni	ithine cycle is re	sponsible for the s	ynthesi	is of		
	(1)	Urea	(2) Aspartic acid	(3)	Citrulline	(4)	Arginine
87.	Whi	ch one of the fol	llowing is used in s	soil trea	tment?		
	(1)	Captan	(2) Sulfex	(3)	PCNB	(4)	Thiram
88.	Whi	ch of the follow	ing organism is use	ed for p	reparing bioco	ntro	l agent ?
	(1)	Alternaria (2	2) Trichoderma (3	3) Heln	ninthosporium	(4)	Penicillium
89.	Trab	aculated endode	ermis is found in				
	(1)	Selaginella	(2) Equisetum	(3)	Marsilea	(4)	Azolla
90.	In Ju	ingermanniales i	the small ventral lea	af is cal	lled		
	(1)	Legule	(2) Sporophyll	(3)	Spike (4)	Am	phigastrium
91.	Toxi	n present in kap	pa particle is				
	(1)	Ergot	(2) Aflatoxin	(3)	Paramicin	(4)	None
92.	Root knot of vegetables is caused by						
	(1)	Sclerotium	(2) Meloidogyne	(3)	Synchytrium	(4)	Taphrina
93.	Kan	tha biosphere res	serve situated in				
	(1)	Assam		(2) G	ujarat		
	(3)	Madhya Prac	lesh	(4) M	eghalaya		

(13)

94.	Hyd	rophyte is						
	(1)	Salvinia	(2) <i>Aloε</i>	(3)	Capparis	(4)	Nerium	
95.	Res	erpine for reduc	cing blood pressure	obtair	ned from the r	oot o	f	
	(1)	Ephedra ge	rardiana	(2) (	Zinchona cali	saya		
	(3)	Rauvolifia s	Serpentina	(4) V	Vithania somi	nifera	ı	
96.	The	active agent of (	Chalones is chemic	ally a				
	(1)	Mucoprotein	(2) Nucleoprotein	n (3)	Lipoprotein	(4)	Histones	
97.	Fair	y ring fungus be	longs to the family					
	(1)	Pucciniaceae	(2) Agaricaceae	(3)	Dematiaceae	(4)	Pezizaceae	
98.	Rust	of Linseed is ca	used by					
	(1)	Uromyces	(2) Puccinia	(3)	Taphrina	(4)	Melanopsora	
99.	Spor	ocarp is present	in					
	(1)	Marsilea	(2) Isoetes	(3)	Selaginella	(4)	Psìlotum	
100.	00. Seed germination promoted by							
	(1)	ABA	(2) Coumarin	(3)	Ferulic acid	(4)	Thiourea	
101.	01. Gongrosira stage is characteristic feature of							
	(1)	Cladophora	(2) Vaucheria	(3)	Ulothrix	(4)	Oedogonium	
			(14)				(Continued)	

102.	. Nitr	rosomonas is a				
	(1)	Chemoorgan	otroph	(2) C	hemolithotro	oph
	(3)	Photoorgano	troph	(4) P	hotolithotro	ph
103.	CAN	A plants belongs	to			
	(1)	Euphorbiaceae	(2) Solanaceae	(3)	Poaceae	(4) Cucurbitaceae
104.	Whi	ch amino acid is	involved in the bio	synthe	esis of colchi	cine ?
	(1)	Lysine	(2) Arginine	(3)	Tyrosine	(4) Tryptophan
105.	Diad	lelphous (9+1)	stamens occur in			
	(1)	Malvaceae	(2) Papilionaceae	(3)	Rosaceae	(4) Poaceae
106.	Whe	n several genes :	are transcribed as o	ne mR	NA, the mR	NA is said to be
	(1)	Multimeric	(2) Polymeric	(3)	Polycistron	nic (4) Polyclonal
107.	107. Complete reduction of the disulfide bonds of immunoglobulin G yields how many different polypeptide chains.					
	(1)	One	(2) Two	(3)	Three	(4) Four
108.	An a	ntibiotic actinon	nyein D blocks			
	(1)	Transcription in	eukaryotes			
	(2)	Transcription in	n both eukaryotes a	nd pro	karyotes	
	(3)	Polypeptide ch	*	•	•	
	(4)	Polypeptide ch	_			
	•					
			(15)			(Turn Over)

109.	109. Which of the following amino acid does not have optical rotation?								
	(1)	Alanine	(2) Glutamine	(3)	Glycine	(4)	Asparigine		
110.	Seru	m is							
	(1)	Blood minus fil	brinogen						
	(2)	Lymph minus corpuscles							
	(3)	Lymph							
	(4)	Blood minus co	orpuscles and fibrin	ogen					
111.	The	condition of fusi	on of filaments as v	vell a	s anthers is				
	(1)	Gynandrous	(2) Synandrous	(3)	Syngenesious	(4)	Protandrous		
112.	Cyto	kinin synthesis (	occurs maximum in						
	(1)	Root	(2) Fruit	(3)	Leaves	(4)	Shoot tip		
113.	Haer	nodialysis is car	ried out in case of s	evere	defect in				
	(1)	Lungs	(2) Liver	(3)	Kidneys	(4)	Pancrease		
114.	Dow	n syndrome is d	ue to						
	(1)	Trisomy of chro	omosome 21						
	(2)	Trisomy of X cl	hromosome						
	(3)	Trisomy of Y c	hromosome						
	(4)	Deletion of chromosome 21							
115.	A liv	ing fossil is							
	(1)	Gnetum	(2) Marchantia	(3)	Taxus	(4)	Ginkgo		

116.	T cel	ls matures in			
	(1).	Bone marrow	(2) Thymus	(3) Liver	(4) Spleen
117.		troporation fac	cilitates introduct	ion of foreign DN	IA into the target
	(1)	Changing the p	orosity of the cell	wall	
	(2)	Changing the e	electric potential of	the cell wall	
	(3)	Active transpo	ort across the cell w	all	
	(4)	Lysis of the ce	ll wall		
118.	Whi	ch of the follow	ring is a metabolic	disorder?	
	(1)	Sickle cell a	naemia	(2) Thalassemia	
	(3)	Phenylketon	uria	(4) Jaundice	
119.	Pseu	doelator presen	t in		
	(1)	Marchantia	(2) Riccia	(3) Anthoceros	(4) Porella
120.		gastrular mor vily telolecithal		ments which occu	r in chick having
	(1)	Convergence	<b>?</b>	(2) Involution	
	(3)	Elongation		(4) All the above	

### अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल *नीली-काली बाल-प्वाइंट पेन* से ही लिखें)

- 1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद है और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- 2. परीक्षा भवन में *लिफाफा रहित प्रवेश-पत्र के अतिरिक्त*, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
- 3. उत्तर-पत्र अलग से दिया गया है। *इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा।* केवल उत्तर-पत्र का ही मृल्यांकन किया जायेगा।
- 4. अपना *अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ट पर पेन से* निर्धारित स्थान पर लिखें।
- उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ओ॰ एम॰ आर॰ पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक संख्या और ओ॰ एम॰ आर॰ पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।
- 7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाइा करना है।
- 9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्थाही द्वारा अंकित उत्तर बदला नहीं जा सकता हैं। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
- 11 एक कार्य के लिये इस-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का प्रयोग करें।
- परीक्षा के उपरान्त केवल ओ० एम० आर० उत्तर-पत्र परीक्षा भवन में जमा करें।
- 13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- 14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की भागी होगा / होगी।