Mrc Plant Biatechnology

15P/287/3

87/3 **35**6

1239

	/Té be :	filled up by t	tha candida	te by hi	ue/black ball-point pen)
	(10 be	inled up by	T Caridida	ie by bi	The state of the s
Roll No.					1
Roll No.				<u> </u>	
	inits in word:	12			
TT IIIC LIIC O	igilis ii i word	. ,			
Serial No. of	f OMR Answ	ver Sheet	••••		
Day and Da	te	••••			(Signature of Invigilator)

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 also 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 unfairmeans.
- 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 ball-point 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).
- 11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- 12. Deposit only the 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 आवरणं पृष्ठ पर दिये गये हैं।]

Total No. of Printed Pages: 14

No. of Questions: 120 पश्नों की संख्या : 120 (Full Marks: 360 Time : 2 Hours] [पूर्णाङ्ग: 360 समय : २ घण्टे] Note: (1) Attempt as many questions as you can. Each question carries 3 (three) marks. One mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. अधिकाधिक प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक प्रश्न 3 (तीन) अंक का है। प्रत्येक गलत उत्तर के लिए एक अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। (2) If more than one alternative answers seem to be approximate to the correct answer, choose the closest one. यदि एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हो, तो निकटतम सही उत्तर दें। 1. PCR (polymerase chain reaction) is used to: (1) Grow E. coli in the laboratory (2) Power cell activity (3) Make many copies of a DNA sequence quickly (4) Clean dried DNA from laboratory glassware 2. Rice, corn, and wheat are: (4) Ferns (3) Multicots (2) Dicots (1) Monocots 3. The group of organisms which convert light into food are called : (4) Omnivores (3) Decomposers (2) Heterotrophs (1) Autotrophs 4. A genetically identical copy of another organism is called: (2) A clone (1) A genomorph (4) A monogene (3) A clown or sport Among the following, the richest source of protein is: (4) Apple (3) Potato (2) Rice (1) Ground Nut AIDS stands for : (1) Acquired Immune Disease Syndrome (2) Acquired Immunity Dis-function Syndrome

(3) Acquired Immuno Deficiency Syndrome(4) Acquired Infection Deficiency Syndrome

15P/287/3

7.	A healthy fresh water fish is placed in saltwater. The expected consequence of this would be that:					
	(1) The fish becomes dehydrated and dies					
	(2) The fish becomes bloated and dies					
	(3) The fish suffers from fungal or bacterial disease and dies					
	(4) There is no observable effect on the fish provided there is sufficient food					
8.	A cell cycle consists of :					
	(1) Mitosis and meiosis					
	(2) G1, the S phase, and G2					
	(3) Prophase, metaphase, anaphase and telophase					
	(4) Interphase and mitosis					
9.	 All plants exhibit alternation of generations. This means their life cycle: (1) Includes both haploid and diploid gametes (2) Shows only asexual reproduction (3) Has both a multicellular haploid stage and a multicellular diploid stage (4) Does not include meiosis 					
10.	A plant's vascular tissue is composed of xylem and phloem. The yelem					
	generally transports, whereas the phloem transports					
	(1) water/sugar (2) sugar/water (3) water/water (4) sugar/sugar					
11.	Tube feet is the locomotory organ in :					
40	(1) Starfish (2) Jelly fish (3) Silver fish (4) Scoliodon					
12.	Which of the following vitamins is soluble as well as anti-oxidant?					
12	(1) Vitamin - B1 (2) Vitamin-A (3) Vitamin-D (4) Vitamin-C					
13.	What is the harm from the depletion of Earth's ozone layer?					
	 (1) The average temperature of earth's surface will increase gradually (2) The oxygen content of the atmosphere will decrease 					
	(3) Increased amount of Ultra violet radiation will reach earth's surface					
	(4) Sea levels will rise as the polar ice caps will gradually melt					
14.	Which of the following is a prime health risks associated with grouter LIV					
	(1) Demonstration through the atmosphere due to depletion of stratospheric ozone?					
	(1) Damage to digestive system (2) Increased liver cancer (3) Neurological disorder (4) Increased skin cancer					
15.						
	Which of the following is not a primary contributor to the greenhouse effect? (1) Carbon dioxide (2) Carbon monoxide					
	(3) Chlorofluorocarbons (4) Methane gas					
	(2)					

16.	The entry of water into root hairs is due to t	he force:					
7/	(1) Atmospheric pressure (2)	Osmotic pressure					
	(3) Idigoi piccourt	Suction pressure					
17.		en gamete formation in animals and					
	gamete formation in plants is that:	we while animals produce gameles					
	(1) Plants produce gametes in somatic tiss	sue, write minimas produce Business					
	in germ tissue. (2) Plants produce gametes by mitosis, meiosis.						
	(3) Plants produce only one of each gamete, while animals produce many gametes.						
	(4) Plants produce gametes that are diple that are haploid.						
18.	. During strenuous exercise; glucose is conve (1) Glycogen (2) Pyruvic acid (3)	erted into : Starch (4) Lactic acid					
19.	· · · · · · · · · · · · · · · · · · ·						
10.	40) Encepalitis					
	(1) Idigiration) Cardiovascular diseases					
2020	(b) minute dissipation is the district of the control of the contr						
20.	but this effect is countered by from	the roots.					
) Gibberellins ethylene					
	(1) Cytokhilip anim same) Gibberellins abscisic acid					
	(b) Transition and the control of th						
21.) Rober Kotch					
	(1) Louis rusteur) Anton De Barry					
	(a) Rober brown						
22.	Some plants are recognized by fungal part pores. Which of the following would p fungal infection?	rovide these plants immunity from					
	(1) Removing all of the stomata from the	plant					
	(2) Changing the spacing of stomatal por	es in these plants					
	(3) Reinforcing the cell wall in the guard(4) Increasing the number of trichome	es on the surfaces of these plants					
	[wp_campaign_1]	is on the summer in the summer					
23.		3) Sheath (4) Rhizoid					
	(1) Root (2) Stem						
	(3)	P.T.O.					
	or ■ state of the						

24.	Biotic environment includes :	to rise!
	(1) Producers (2) Consumers	
25,		(3) Decomposers (4) All of the above
	(1) Legumuanceae	(2) Cucurbitaceous
	(3) Papaveraceae	(4) Liliaceae
26.	T HOUSE WITH GIRE TO EXCESS OF !	
	(1) Transpiration	(2) Guttation
-	(3) Translocation	(4) Active transport
27.	a mana syntatests brotest stolls:	
	(1) Amino acids (2) Nucleotides	
28.	You are performing an experiment to	determine the nutrient
	menty discovered plant and find tha	t for some reason room when a deal
	Coron out of the Krowth Wedit	IM but do fine with as low as 5 name
	million in solution. This suggests that (1) An essential macronutrient	poron is :
	(3) An essential micronutrient	
29.		(4) A nonessential macronutrient
	Each basis inheritable character is cons (1) Chromosome (2) DNA	
30.		(3) RNA (4) Gene
· · · ·	Gene is made up of	
34	(1) Proteins (2) RNA	(3) DNA (4) All of them
31.	Sugarcane + Potato is an inter-croppin	g system of :
	(1) Autumn season	(2) Zaid season
32.	(3) Spring season	(4) Rainy season
32.	in technique entire organis	sm can be grown from a single cell or
	(1) tissue culture	
	(3) genetic engineering	(2) cloning (4) transfusion
33.	A lipid membrane picked up by a virus	(*/ transfusion
	(1) A capsid	(2) a capsomere
	(3) an envelope	(4) a gel capsule
34.	Which of the following is not done in a	wild life sanchager ?
	(1) Fauna is conserved	(2) Flora is conserved
	(3) Soil and flora is utilized	(4) Hunting is prohibited
35 .	Which of the following cannot be used	as a vector ?
	(1) Phage	(2) Plasmid
	(3) Bacterium	(4) All can be used as vectors

36.	Which of the following is not an applica-	tion	of genetic engineering in plants?	
	(1) nitrogen fixation		k "	
	(2) DNA vaccines (3) resistance to glyphosate			
	(4) production of insecticidal proteins is	n pla	ants	
37.	Genetic engineering is the manipulation	of	for practical purpose.	
•••	(1) Genetic bacteria		Genetic plant	
	(3) Genetic material	(4)	Genetic animal	
38.	Cuts in DNA are sealed with:			
.	(1) Restriction enzymes	(2)	Ligases	
	(3) Reverse transcriptase	(4)	Polymerase	
39.	Sticky ends are the result of:			
	(1) Treatment of a nucleotide sequence	with	h DNA ligase	
	(2) Exposure of eukaryotic DNA to a pr	roka	aryotic plasmid	
	(3) Cutting by restriction enzymes "off	cent	ter" in a specific nucleonide sequence	
	(4) DNA breaking down in the presence	e or	reverses transcriptase	
40.	You are conducting research on eight sp	ecie	es of Tribolium flour beeties and you	
32	want to compare their proteins. Which use?	1 01 (the following techniques hughin you	
	(1) genetic engineering	(2)	gene therapy	
	(3) gel electrophoresis		polymerase chain reaction	
41.				
4	(1) Poppy and Potato	(2)	Potato and tomato	
	(3) Poppy and tamarind		Poppy and Tomato	
42.	The first mammal to be successfully clo			
74.	(1) cow (2) sheep		pig (4) human	
43	When a plant structure such as a leaf is			
43.	cause the part to age and drop off.		to age	
	(1) cytokinins (2) ethylene	(3)) auxins (4) abscisic acid	
44.	Enzymes that can break the bonds that	ıt ho	old the DNA backbones together are	
	called:			
	(1) Nucleases (2) Fissionases	100.00) Backbreakers (4) Debasers	
45.		/O)	DNIA	
	(1) RNA	(2)) DNA) Either RNA or DNA	
	(3) Both RNA and DNA	(4)	•	
	(5)		P.T.C),

15P/287/3

46.	Medicine of quinine is provided by:			*		
	(1) eucalyptus plant	(2)	aconite plant			
	(3) cinchona plant		money plant			
47.	Decomposers include:	13.06 * 00	<i>y</i> F			
	(1) bacteria (2) fungi	(3)	both	(4) animals		
48.	Which of the following wastes canno compost?	ot be	decomposed		rm	
	(1) Kitchen wastes	(2)	Plastic and po	lythene bags		
	(3) Dead plants			cts living in the so:	i l	
49.	When trees are cut, amount of oxygen:					
	(1) decreases	(2)	increases			
	(3) both (1) and (2)	(4)	remains same	19		
50.	If you could connect an active xylem sieve-tube member from a leaf using solution flow between the two?	vessei g a "r	l from a shoot nicropipe", wl	to an active phlor nich way would	em the	
	(1) The solution would flow from xylem to phloem.					
	(2) The solution would flow from phloem to xylem.					
	(3) The solution would flow back and i	forth	from one to an	other		
	(4) The solution would not flow between			·		
51.	The movement of water in the xylem re					
	 ability of water molecules to hydrog 	gen-b	ond with each	other		
	(2) active transport					
	(3) evaporation of water from the leaf s(4) Both (1) and (3) are correct	surfac	e			
52.		verbal a	h af tha 6-11			
	If you wanted to force stomata to open, (1) Treat the plant with abscisic acid	WILL	n or the follow	ing would work?		
	(2) Stimulate water movement into the	guar	d cells			
48	(3) Stimulate water movement out of the	ne gua	ard cells			
	(4) Force the dermal cells around the st guard cells apart.	tomat	a to dehydrate	, thereby pulling t	he	
53.	A term biotype means:					
	(1) All individuals having same phenot	ype				
	(2) All individuals having same genoty	pe				
	(3) All individuals with different pheno(4) All individuals with different genoty	otype			ř	
	Seitol	ype				

54.	Which of the following elements is a me (1) S (2) Se	etal 3 (3)		(4)	Ga	
55.	Most plant and animal cells are similar i common:					
	(1) Cytoplasm and cellulose(3) Cytoplasm and nucleus	(4)	Cytoplasm and Membrane and	ceil	wall	
56.	Lamarck's theory of inheritance of acqui	ired	characters was c	hall	enged by	:
	(1) August Weismann		Hugo De Vries			
	(3) Herbert Spencer	(4)	Carl Linnaeus			
57.	Galvanised Iron sheets have a coating of	f:				
	(1) Tin (2) Lead .	(3)	Zinc	(4)	Chromit	ım
58.	Endoplasmic reticulum is bound by:					
	(1) Cellulose wall	(2)	Membranes			
	(3) Sclerotised layer	(4)	Chitinised wall			
59.	Electric current is measured by:					
	(1) Voltmeter (2) Anemometer	(3)	Commutator	(4)	Ammete	er
60.	Which of the following is most likely to				ge tempe	erature
· · ·	of the Earth in the future?	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.B	
¥	(1) Atomic warfare	(2)	CO ₂ from fossi	l fue	els	
	(3) Dust clouds from volcanoes	20	Depletion of the			e layer
61.	A plant leaf appear to green because it :		3			
01.	(1) absorbs green light		reflects all but ye	llow	and gree	n light
	(3) reflect green light		absorbs red and			
~~				. ,		
62.	Which of the following is true of the bryog (1) It is the only group that shows an all			ione		
	(2) Bryophytes exhibit extensive vascul			ш	•1	
	(3) The sporophyte (multicellular diplo			ıs sta	age.	15
	(4) The gametophyte (multicellular hap					
63.	Which of the following is not characteristics.	Buc	or a morrocot.			
	(1) leaves with parallel veins	ıltin	les of three			
	(2) flower parts usually in threes or mu(3) lateral meristems occurring rarely	шр	ies of timee			
	(4) seed with two cotyledons	of i	ha natale protec	tina	the deve	loping
64.	A green leaf-like structures at the base flower is called:	י זט	the berais brotec	mig	ine deve	roburg
		(3)	calyx	(4)	anther	i I
	(1) sepal (2) rhizoid	(0)		(+)		
	(7)					P.T.O.

6 5,	In flower, male rep (1) corolla		iction consisting stamen		lament and anth		i: epicalyx
66.	In plants: (1) Gametes are pr (2) Gametes are pr (3) No gametes ar (4) Seeds are always	roduc re mo	ed directly after tile				
67.	Which of the follo	wing	problems is not	crea	ted by noise pol	lutio	n?
	(1) Diarrhoea		Hypertension				Irritation
68.	Sucrose enters a p	hloer	n sieve-tube cell	beca	use of :		vii
	(1) Osmosis				Water potentia	1	•**
	(3) Active transpo	ort	∞ .	(4)	A process regu	lated	l by auxin
69.	Chordae tendinae	is a p	oart of the :				
	(1) Heart	(2)	Lung	(3)	Notochord	(4)	Tendon
70.	Nerve cell does no	t div	ide because they	do i	not have :		
	(1) Nucleus	(2)	Centrosome	(3)	Golgi body	(4)	Mitochondria
71.	 Khaira disease of t (1) protein deficie (3) O₂ depletion 		caused by :	12350	zinc deficiency pathogenic fun		
72,	Yeast, used in mal	cing b	oread is a :				
-	(1) plant		seed	(3)	bacteria	(4)	fungus
73.	Which of the follo (1) Nitrogen		nutrients is not Calcium		uctural compone Phosphorus		1 To
74.	Which of the follo quantities?		gases is release	d fro	om rice fields in		
	 Carbon dioxic Carbon mono. 			7	Methane	_	
75	PURROR BY 9899 9899				Sulphur dioxid		
75.	The study of phen (1) Heat transfer	omei	ia at very low te		Morphology	÷	
2	(3) Crystallograp.	hv		750 11 33	Cryogenics		
76.	In which of the fo cephalotorax and	llowi				dy d	ivisions include
	(1) Crustacea only						9
	(2) Crustacea and	600	chnida only		•9		50 (5)
	(3) Crustacea, Ara			phor	a only		
	(4) Crustacea, Ar.	achni	da, Onychopho	га ал	d Chilopoda		
			(0)				

77.	The Ecological pyramid that is always u	prig	ght:	
	(1) Pyramid of energy	(3)	Pyramid of biomass	
<u> </u>	(3) Pyramid of number		None of the above	
78.	Mycorrhiza exhibits the phenomenon of (1) Symbiosis (2) Antagonism		Parasitism (4) Commensalism	
70	222.30			
79.	The largest and the most powerful addu (1) coracobrachialis longus		pectoralis major	
16	(3) pectoralis minor	62 . A2	tensor longus	
80.	Which one of the following does not have			
	(1) Amphioxus (2) Dog fish	(3)	Chameleon (4) Scaly ant-eater	
81.	Plant that eat insects are called:			
	(1) Omnivorous	80870	Insectivorous	
	(3) Caprophagous	15 1550	Insecticidal plants	
82.	The cryptozoite stage in the life cycle of the following?	f Pla	asmodium is found in which one of	
	(1) Human erythrocytes	(2)	Human hepatocytes	
	(3) Salivary glands of Anopheles	(4)	Intestinal epithelium of Anopheles	
83.	Who among the following is associated			
	(1) Edison		Mac Millen	
20	(3) Babbage	(4)	Rangabhashyam	
84.	Activity of brain is recorded by:	(2)	MET (4) CT	
	(1) ECG (2) EEG	0.000	1 (1000 2004 100 100 100 100 100 100 100 100 100	
85.	What kind of molecules must pass between (1) DNA		Protein	
	(3) Lipids		Carbohydrates	
8 6.	When all or a piece of a chromo	son	ne becomes attached to another	
	chromosome, the aberration is called a(r	ı) :		
	(1) Inversion. (2) Translocation. (3)	Deletion. (4) Duplication.	
87.	Fruit most suitable for making jelly is:			
	(1) Papaya (2) Karonda	• •	Mango (4) Banana	
88.	The best source of Vitamin C among the			
	(1) Lycopersicum esculentum	100	Cirus medica Phyllanthus emblica (Amla)	
	(3) Capsicum annum	98 B		
89.	Which one of the bones had a maximuvertebrate phylogeny?	un	tenuency towards reduction in the	
	(1) Dermal bones	(2)	Sesamoid bones	
	(3) Appendicular bones	(4)	Replacing bones	
	(9)		P.T.O.	

90.	"Green house effect	t" with respect to glo	bal warming refers	to:
		st condition		
	(3) Increased rainf	all & greenery	(4) Desertification	n
91.	Insectivorous plant	generally grow in s	oil which is deficier	nt in :
	(1) Water	(2) Nitrogen	(3) Potassium	(4) Calcium
92.	A high BOD value	in aquatic environm	ent is indicative of	
	(1) A pollution fre	to the second se		
	(2) A highly pollu	teď system due to ex	cess of nutrients	
		ted system due to ab		ns
	(4) A highly pure	water with abundan	ce of autotrophs	
93.	The Casparian strip	is analogous to:		
	(1) Caulking to wa	iterproof a seam in t	he bathtub.	
	(2) Axle grease to	lubricate a wheel.		
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	revent fertilization.		
	(4) Masking tape t	o hold things togeth	ier.	
94.		opening of DNA do	uble helix in front o	f replication fork is :
	(1) DNA gyrase		(2) DNA Polyme	
	(3) DNA ligase		(4) DNA topoiso	merase
95.		acids are involved in		
	(1) 20	(2) 22	(3) 24	(4)30
96 .	Amino acids join	up into a large ch	ain (polymer) to c	reate what biologica
	molecule(s)?	703 F 1 1 1	(B) E	770 EV 1.1 3.1
2022	(1) Proteins	(2) Lipids	(A)	(4) Nucleic acids
9 7.		is coded for by the ti		
	50 5090 0.50	(2) Metheonine		(4) Lysine
98.		e food invariably acc		
	(3) Protein and ste	roid	20 a 10 a	
00			(4) Glycogen and	i on arops
99.	AST 100 (100 (100 (100 (100 (100 (100 (100	producing pure cellu		
	(1) Root hair	(2) Leaf hair	(3) Seed hair	(4) Stem hair
100.		ving statements is co	orrect?	
	(1) Xylem is made			•
	(2) Xylem is made	of living and non li	ving cells	
	(3) Xylem is made	of non-living cells		
	(4) Xylem does no	t contain cells		
	and the second s			

101.	Which cells decay faster, if exposed fr	********			
	(1) Heart wood(3) Wood rich in fibres	1000	Sap wood Softwood		3
102.	Law of limiting factors is concerned v (1) Internal factors affecting transpir (2) External factors affecting photosy (3) External factors affecting growth (4) Internal factors affecting respirati	ation /nthesi	s		
103.	In the context of alternative sources be obtained from: (1) Potato (2) Rice		rgy, ethanol as a Sugarcane		ble bio-fuel can Wheat
104.	RNA contains:	100.0	· ·	A 15	
	(1) Hexose (2) Ribose	(3)	Fructose	(4)	Glucose
105.	Parthenogamy represents the: (1) Union of two vegetative nuclei (3) Union of two gametes of one sex		Union of two pa Union of three g		• -
106.	Euploidy is explained by: (1) One chromosome more than one haploid Set (2) One chromosome less than the haploid set (3) One chromosome more than diploid set (4) Exact multiple of a basic set of chromosome				
107.	Preserving germplasm in frozen state	is:			
	(1) Cryopreservation		Cold storage		
108.	 (3) In situ preservation Pure line breed refers to: (1) Heterozygosity and linkage (2) Heterozygosity and independent (3) Heterozygosity only (4) Homozygosity only 		Vernalisation ment		*
09.	DNA is associated with highly basic p	orotein	called:		
	(1) Histoines (2) Non-histoines	s (3)	Albumins	(4)	Non-albumin
110.	Photophosphorylation was discovere (1) Arnon (3) Calvin	(2)	Hill Ruben and Kam	ian	
111.	Taq DNA polymerase is isolated from		annair Inc.		
	(1) Thermus acquaticus	2,750,000	Thermus inequality		
	(3) Bacillus thurengiensis		Bacillus amylovoi	ı	
	(11	1)	<u>e</u>		P.T.O

15P/287/3

112.	'Heart, of heart' is:				
	(1) Bundle of His (2) AV node	(3) SA node (4) Purkinje fibers			
113.	'AIDS' is due to:				
	(1) Destruction of killer- T-cells	(2) Destruction of helper- T -cells			
	(3) Lack of interferons	(4) Autoimmunity			
114.					
	(1) Muscles of heart	(2) Vertebrae			
115	(3) Muscles of legs	(4). Public symphysis			
115.	Jalpriya is a variety of: (1) Maize (2) Jowar	(2) Reddin (4) P. J.			
116.		(3) Paddy (4) Barley			
	(1) gametophyte is prominent, and the sporophyte is dependent upon the				
	gametophyte.				
	(2) sporophyte is prominent, with th	e sporophyte and gametophyte living			
	independently.				
10	sporophyte.	gametophyte is dependent upon the			
	(4) gametophyte is prominent, and the sporophyte stage has disappeared.				
117.	Genome is:				
	(1) Genes on nuclear DNA	a .			
	(2) Nuclear DNA + mitochondrial DNA				
	(3) Nuclear DNA + chloroplast DNA				
	(4) Nuclear DNA + Mitochondrial DNA + Chloroplast DNA				
118.					
	(1) bacteria	(2) vertebrates			
	(3) all living organisms	(4) bacteriophages			
119.	The identification of the function of a	gene in a genome can be accomplished			
	using:	ber an a desire out of accompliance			
	(1) Functional genomics	(2) Gene microarrays			
	(3) Gel electrophoresis	(4) Bioinformatics			
120.	Three dimensional shape of tRNA is:				
	(1) L-shaped	(2) Clover leaf-like			
	(3) X-shaped	(4) Y-shaped			
	27 26 E.S.	AND IT STATES			

अभ्यर्थियों के लिए निर्देश

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

- 1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं 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 लाये।
- 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 मूल्यांकन किया जायेगा।
- 4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
- 5. 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 उपरिक्षेखन 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 बाल-प्वाइंट पेन से गाढ़ा करना है।
- 9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाड़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। 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. रफ कार्य के लिये इस पुस्तिका के मुखपृष्ट के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का प्रयोग करें।
- 12. परीक्षा के उपरान्त केवल ओं० एम० आर० उत्तर-पत्र ही 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 वंड का/की भागी होगा/होगी।