16P/219/2

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		Question Booklet No
	(To be filled up by the candidate b	y blue/black ball-point pen)
Roll No.		
	4.0 PM - 17 PM - 17 PM MATERIAN - 18 PM - 1 PM MATERIAN SAN PM MATERIAN SAN PM MATERIAN SAN PM MATERIAN SAN PM	Code N. (485)
Serial No. of C	OMR Answer Sheet	· · · · · · · · · · · · · · · · · · ·
Day and Date	(201)	(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

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

- 1. Within 30 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
- 11. For rough work, use the inner back page of the title cover and the blank page at the end of
- 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 आवरण-पृष्ठ पर दिये गये हैं।]

Total No. of Printed Pages: 14



16P/219/22

No. of Questions: 150

ime :	2 Hours]					I	Full Marks: 45
Note:		r ill be ch und ne alte	e deducted for a attempted question ernative answers	each n.	incorrect answ	er. 2	Zero mark will b
1.	The cell wall of di	atom	cells is rich in :				
	(1) Protein	(2)	Muramic acid	(3)	Silica	(4)	Galactoside
2.	Iodine is commercial	rially	obtained from :				
	(1) Gelidium	(2)	Ulva	(3)	Gracilaria	(4)	Laminaria
3.	Which of the follo sexuality?						
4.	(1) Phycomyces	(2)	Deutromycetes	6 (3)	Basidiomycete	s (4)	Ascomycetes
4.	Which among the (1) <i>Pellia</i>						
5.		(2)	Sphagnum .	(3)	Funaria	(4)	Porella
J.	Microsporangia an (1) Selaginella	(2)	Drumtania	e to:	rmed in the same		
6.	~	(2)	Dryopteris	(3)	Equisetum	(4)	Lycopodium
0.	Which one of the f (1) Carotenoids	(2)	ing algal pigme	nts i	s soluble in wate	er?	
7.				(3)	Chlorophylls	(4)	Phyeocyanin
1.1	Which of the followall (1) Rust fungi	wing .	rungus is me ma	1111 C	OHECO OF THE AMOUNT	0 1	
8.	~		Yeast	(3)	Bread Mould	(4)	Smut funci
0.	Sporogonium of R (1) Seta and capsu	iccia i	s differentiated				
	(3) A simple cans	ıle		(2)	Foot, seta and ca	psul	P
_	(5) It simple cups	uic ,	_	(4)	Foot and sita on	dy	
9.	When sporangia ir (1) Leptosporangi	i a fer ate	n develop from	a sir (2)	igle initial cll, it is Eusporangte	s call	ed :
	(3) Heterosporang	giate		(4)	Asporangia		
10.	Which of the follow (1) Simple filamen	ving a	algal thallus is co	onsi	dered as high		
	(1) Simple filamer	ntous	STATES SERVICE STATES SERVICES	(2)	Colonial Colonial	Vod.	
	(3) Heterotrichou			(4)	Siphonaceou	cu?	
	(3) Heteromenor			(-)	ырнонисеон		
		V	(1)				

11.	In which one of the (1) <i>Dictyota</i>	following algae (2) Oedogonius	oogamoi m (3)	us sexual reprod <i>Chara</i>		on is <i>not</i> found ? <i>Zygnema</i>
12.	Which of the follow (1) Bordeaux mixtor (3) 2, 4-D	ring is a fungicioure	(2)	D. D. T. Amphicilin		
13.	Elators are present (1) Selaginella	in the sporogon (2) <i>Riccia</i>		Marchantia	(4)	Sphagnum
14.	Amphiphloeic siphe (1) Ophioglossum			Pteris	(4)	Lycopodium
15.	Isomorphic alternal (1) Fritschiella	tion of generatio (2) Vaucheria		d in : <i>Spirogyra</i>	(4)	Volvox
	What is the mode o (1) Autotrophic	(2) Parasitic	(3)	Symbiotic		Saprophytic
17.	In which of the bry is found?	ophyte a highe	est degree	e of sporogenou	S fiss	sue stermzanon
	(1) Funaria	(2) Riccia	(3)	Anthoceros	(4)	Marchantia
18.	Gametic meiosis tal (1) Polysiphonia (3) Sargassum	kes place in :		Ulothrix Draparnoldiopsi	is	
19.	Which one of the fo (1) Uredospore	ollowing spores (2) Teleutospo		- 10 m	(4)	Basidiospore
20.	Heterothallism in fu (1) Bessey	(2) Robert Ho	oke (3)	Saccordo		Blakeslee
21.	In bryophytes redu (1) Sex organ form (3) Gamete format	апон	(4)	e at the time of : Spore formatio Capsule forma		
22.	Porphyra is:	inate	(1)	An edible alga A source of ioc	line	agus .
23	famine III.	Citities .	ed by mas (3)	Phytophthora	(4)	Ustilago
	(1) Alternaria (1) Alternaria A. S. R. Kashyap is for the second	mous in the field (2) Bryology	d of : (3)	Mycology	(4)	Pteridology
2	(1) 111 ne of	3 Ionowing we	avelength	s of visible lig	ht is	absorbed by
	25. Which one of phycoerythrin	(2) 610 nm	(3)	660 nm	(4)	540 nm
	(1)					

26.	Ocheate stipules are (1) <i>Citrus</i>		ind in : <i>Ixora</i>	(3)	Polygonum	(4)	Ageratum
27.	Winged petioles are (1) Aegle		nd in : Argemone	(3)	Callistemon	(4)	Citrus
28.	Which of the follow (1) <i>Striga</i>		is partial root pa Parthenium		te ? <i>Loranthus</i>	(4)	Nepenthes
29.	Total number of ser	ies i	n Bentham and 1	Hoo	kers system of cl	assi	fication is:
	(1) 19	(2)	21		15		24
30.	Ligulate leaves are (1) Liliaceae			(3)	Euphorbiaceae	(4)	Cycas
31.	Flowers are unisexu	aal ii	n :				
	(1) Zingiberaceae	(2)	Cyperaceae	(3)	Euphorbiaceae	(4)	Rutaceae
32.	Floral bud is modif			(-)		1 /	
02.	(1) Antigonon	(2)	Pisum	1	Coccinia		Bignomia
33.	Which of the follow	ring	is not true with	resp	ect to Asteraceae	?	
	(1) Syngenesious s	tam	ens, inferior ova	ry ai	nd basal placenta	ation	١
	(2) Monothecous a	nthe	ers, superior ova	rv ai	nd axile placenta	tion	
	(3) Syngenesious s	tam	ens, cypsella frui	its aı	nd superior ovar	V	
	(4) Superior ovary	, bas	sal placentation a	ind e	exstipulate leave	S	
34.	Pentoxylon was dis						
U	(1) Nilgiri Hills	(2)	Raimahal Hau	inni (2)	Irom:	(4)	Cal 11:11
25	· ·	(-)	raymanai miis	(3)	Western Ghats	(4)	Satpura Hills
35.	Cycas ovule is:						
	(1) Campylotropoi	.1S		400	Hemianatropou	ls	
	(3) Orthotropous				Anatropous		
36.	Birbal Sahni Institu	te of	Palaeobotany is	situ	ated at:		
	(1) New Delhi	(2)	Lucknow	(3)	Dehradun	(4)	Bhubaneshwar
37.	Stevia rebaudiana a r	atu	ral sweetner plan	nt. be	elongs to family	:	bridoanesnwar
	(1) Asteraceae	(2)	Solanaceae		Poaceae		
38.	Branched stamens a			(0)	rouceae	(4)	Apiaceae
00.	(1) Triticum aestivu		Juna m :	(2)	Calabari		
				(2)	Calotropis procert	7	
	(3) Ricinus commun		PB 1900	(4)	Solanum nigrum		
39.	Which type of embr	yos	ac is found in Al				
	(1) Monosporic typ			(2)	Bisporic typ		
	(3) Tetrasporic typ	e		(4)	Polygonumpe		
40	In angiosperms, em	bryo	osac represents :		PC		
40.	(1) Megagametopl	vte	A MARIE TO	(2)	Megasporor		
	(3) Megagamete	J.		(4)	Megasporof3		
	(3) Megagamete			(-1	aspore		
			(3)				

P.T.O.

41.	Cortical vascular by	ındl	es are found ir	1:			
	(1) Salvadora	(2)	<i>Achyranthes</i>	(3)	Nyctanthes	(4)	Boerhavia
42.	Perisperm in the se					2.1	
43.	(1) Nucellus Pollination through		Funiculus	(3)	Hilum	(4)	Ovary wall
	(1) Calotropis	(2)	Salvia -		Ficus	(4)	Hydrilla
44.	Sunkened stomata	are f	ound in:			\ /	3
	(1) Pinus needles	(2)	Cycas leaves				
45.	(3) Gnetum leaves					c	1!
10.	Trimerous flowers, (1) Solanaceae	(2)	erior ovary and Liliaceae	a axiie	Cucurbitaceae	(4)	a in : Asteraceae
46.	Tricarpellary, synca					(-)	Tibleracene
	(1) Asteraceae					(4)	Poaceae
47.	Winged seeds are fo						
	(1) Pinus		300		Papaver	(4)	Adhatoda
48.	Parachute mechanis		1.50			(1)	Thorns
40	(1) Bracts		Pappus	(3)	Tepals	(4)	THOITIS
49.	The endosperm of <i>F</i> (1) Triploid			(3)	Diploid	(4)	Tetraploid
50.	Gynobasic style is for		27.8		2. F.0.0	\ /	1
	(1) Ranunculaceae				Apiaceae	(4)	Lamiaceae
51.	"Rate of change of n	uml	oer of species p	er uni	it change in hab	itat"	is known as
	(1) Alpha diversity	(2)	Beta diversity	(3)	Gama diversity	(4)	Biodiversity
52.	Which of the follow	ing l	has been recog	nized	as a mega diver	se co	ountry?
	(1) New Zealand	(2)	Austria	(3)	Australia	(4)	Nepal
53.	Taiga represents:		- Compate	(2)	Temperate gras	eelan	d
00.	(1) Northern conife	duo	s torests	(4)	Savannah grass		
				vdroi	phyte?		
54.	(3) Temperate deep	(2)	Azolla	(3)	Vallisneria	(4)	Lemma
J	(1) Eichhornin In India maximum	oiod	iversity is four	nd in :			
55	radio maximica.		,	(2)	Western Ghats		
55.					Eastern Ghats		
	(1) Gangetic plain (3) Trans-Himale	us"	is used to refer	·:			
	The term wrang	of ter	nperature tote	rance			
5	(1) Na range)(IIII i	ity to termina				
	(1) Narrow range (2) Wide range (3) Narrow ran	of fo	od selection selection (4				
	(3) Narrous	alba	selection (4)			
	W Nat		(4	1			

57.	Which of the follow (1) <i>Hg</i>	ing causes the Itai It (2) <i>Cr</i>		isease ? <i>Pb</i>	(4)	Cd
58.	The average salinity (1) 35%	of sea water is: (2) 3.5%	(3)	5.3%	(4)	0.35%
59.	The term "aufwuchs" (1) Plankton	s" is used to refer : (2) Nekton	(3)	Neuston	(4)	Periphyton
60.	Which one of the fo (1) Small pox	llowing is a water be (2) Cholera		disease ? Malaria	(4)	Tuberculosis
61.	Marginal necrosis a (1) SO ₂ toxicity (3) Ozone toxicity	nd tip-burn in leave	(2)	n diagnostic sym NO ₂ toxicity Fluoride toxici	-	n of :
62.	20 000					
63.	The process of pods (1) Cold humid clir (3) Dry tropical clir	olization generally onate	(2)			S
64.	Which of the follow growth?			•		
	(1) Hygroscopic wa(3) Capillary water		(4)	Gravitational w Echard water		
65.	In an ecological st themselves in the ne	Prace 13 KHOWH 2	IS :		mig	rants establish
66.	(1) Nudation Climax stage is pred	(2) Migration	(3)	Ececis	(4)	Aggregation
	 High entropy K-selection type Species with bro Open nutrient co 	species ad niche specializat		iby:	•	
67.	Which of the following (1) Sulphur dioxide (2) Fluoride pollution (3) Methyl isocyana (4) Ozone depletion	- Teeth on - Bhopal Bas trage te - Acid rain		hed ?		

68.	J-shaped population growth curve is no : (1) House fly (3) Elephant	t found in : (2) Cassia tora (4) r-selection type species
69.	The total energy trapped by plants in a § (1) Gross primary productivity (3) Ecological efficiency	given time and space is known as: (2) Net primary productivity (4) Turnover rate
70.	Which of the following is the most comme (1) Random (2) Contagious	mon pattern of population dispersion ? (3) Regular (4) Uniform
	Acid rain has pH: (1) <7.6 (2) <7.0	(3) <5.6 (4) <1.6
72.	The "continuum" concept of vegetation (1) Individualistic approach (3) Typal approach	organization is also known as : (2) Zonal approach (4) Organismic approach
73.	For narrow leaves, the value of Kemp's (1) 0.6 (2) 0.9	constant is: (3) 6.0 (4) 9.0
74.	Which National Park is situated in Utta (1) Jim Corbett National Park (3) Gir National Park	r Pradesh ? (2) Dudhwa National Park (4) Kaziranga National Park
75.	In a water body, algal bloom is an indic(1) Nutrient enrichment(3) Pollution due to pesticides	(4) Pollution due to metals
76.	A plant growth regulator related to inh (1) Ethylene	(4) Gibberellic acid
77.	Function of leg haemoglobin in root no (1) To prevent respiratory O_2 uptake O_2 uptake	(4) To remove O_2
78.	Diffusion pressure deficit of a fully tur (1) Zero (2) Turgor pressure of cell	
	(3) Osmotic pressure of certain (4) Product of turgor and osmotic	codons is meant for the termination of
79	Which of the following group to synthesis of polypiptide chain? (1) AUA, GAU, LA (3) AUA, AGU, LAA (6)	(4) UAA, UAC, UGA

80.		nism used by Calvin for 'Calvin Cycle'			
	were: (1) X-ray technique and <i>Chlamydomonas</i>				
	(2) Radioactive isotope technique and(3) Radioactive isotope technique and				
	(4) Nuclear magnetic resonance techni				
81.	A pigment concerned with both floral i				
82.	The bacterial genera carrying out symbiotic nitrogen fixation, respectivel (1) Rhizobium Azotobacter, Nitrosomonas (2) Nitrosomonas, Nitrobacter, Rhizobium (3) Nitrosomonas, Nitrobacter, Azotobacter	nitrification, nitration, asymbiotic and y are: s and Nitrobacter and Azotobacter er and Rhizobium			
83.	(4) Nitrobacter, Nitrosomonas, Azotobact				
00.	The organic acid which plays a key role (1) Pyruvic acid	e in the synthesis amino acid is : (2) Malic acid			
	(3) α-Ketoglutaric acid	(4) Oxaloacetic acid			
84.	The terms, 'apoplast' and 'symplast' wer	re used for the first time by:			
0.5	(1) Dixon (2) Clark	(3) Munch (4) Fisher			
85.	In split genes, the coding sequence is ca (1) Sistrons (2) Operons	alled: (3) Exons (4) Introns			
86.	Which of the following molecule has be	oth α 1-4 and α 1-6 linkages?			
07	(1) Maltose (2) Cellulose	(3) Amylose (4) Amylopectia			
87.	The pathway that converts fat to carbol (1) Calvin pathway	nydrate is :			
	(3) C ₄ pathway	(2) Glyoxylate pathway (4) Glycolate pathway			
88.	Which of the following plant is an exam	aple of short day plant?			
	(1) Mirabilis jalapa	(2) Beta vulgaris			
00	(3) Xanthium strumarium	(4) Lycopersicum esculentum			
89.	Which of the following nutrient elemen (1) Phosphorus (2) Potassium	ts is most mobile in plants? (3) Calcium			
90.		chondrial marrer (4) Magnesium			
30.	Which of the following enzyme is a mite (1) Aldolase	(a) A seed on enzyme 2			
	(3) Succinic dehydrogenase	(4) Pyruvate dehy			
91.	In chloroplast, 'ATP synthase' is located	in:			
V 11	(1) Inner membrane	(2) Outer menrane			
	(3) Thylakoid men <i>brane</i>	(4) Grana			
	\$000 miles				

92.	During EMP pathway, 7 (1) Oxidative phosphor (3) Sustrate level phosp	ylation	(2)	Cyclic phospho		
93.	Which of the following (1) Carotenoids (2)	pigment is solubl Chlorophylls	e in (3)	water ? Phycocyanin	(4)	Xanthophylls
94.	Aptamers are: (1) RNA molecules (2)	DNA	(3)	Protein	(4)	Amino acids
95.	In photosynthetic electronic		e he	erbicides like DO	CMU	and dimethyl
	urea inhibit electron trai (1) P ₆₈₂ and Ubiquinon	e	(2)	Cytochrome f ai	nd P	lastocyanin
00	(3) Plastoquinone and	Cytochrome f	(4)	Ubiquinone and	1 Fla	Stoquinone
96.	Which of the following (1) DNA polymerase I	enzymes initiates	; Dr (2)	DNA polymera	se II	
	(3) DNA polymerase I			RNA polymera		
97.	The peptidyl transfera					ch unit of the
	ribosome:			50S		A site of 30S
0.0	(1) 305 (2) Cellulose is polymer of		(3)	500	,	
98.	(1) α -1 -Glucose (2)		(3)	α-D -Glucose	(4)	β -L -Glucose
99.	Glutathione is a:		(2)	Tripeptide		
	(1) Dipeptide(3) Monosaccharide		(4)	Disaccharide		
100.	Ethylene is produced fr	om amino acid :	(0)	m i	(4)	Serine
	$\sim 1.5 \text{ (1) is mino}$ (2)	Tryptophan	(3)	Tyrosine		
101.	A mutant of E-coli grov The most likely metabo	vs normally on g dic pathway that	is d	efective in this n	nuta	nt is:
	(1) Glyoxalate cycle		(4)	Trenose money	T	
	(3) Krebs cycle		(4)	Enter-Duodoro	off pa	athway
	II dor which phase o	f bacterial growt	h b	acteria increases	in :	size but do not
102.					/ 43	D 1
	(1) Lag (1) Lag All the following may	he methods for	the	e inhibition of r	nicro	bial growth by
	in the following that	be memous for				<i>6</i>
103	All the following antibiotics except Antibiotics except (1) Antibiotics interference of the private of the priv	t cell wall synthes	sis			
	Antibiotis interfer	ce with cell mem	brar	ne function		
	All the long except antibiotics except (1) Antibiotis interfer (2) Antibiotis pryer	the curther in	nerg	y from A II		
	(1) Antibiotics disruption (1) Antibiotics interference (2) Antibiotics priver (3) Antibiotics inbition (4) Antibiotics inbition (4) Antibiotics inbition (5)	the synthesis of [וטונ	em		
	(4) Antiby	(8)				

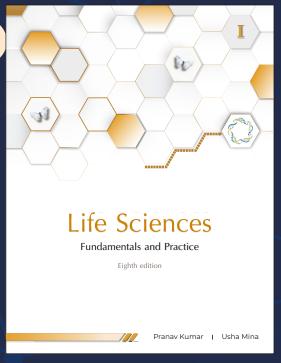
101	A 1	contained 32 ×	10 ⁶ cel	ls after 2.5 ho	ours of exponential e initial population
104.	orowth. If the dou	bling time was 3	nin,	what was the	e initial population
	number in this cult. (1) 20×10^4 cells	(2) 10×10^5 cells	(3)	$40 \times 10^{\circ}$ cells	(4) 16 × 10 Cens
105.	Genome of HIV is: (1) ss DNA	(2) ss RNA	(3)	ds DNA	(4) ds RNA
106.	A T-series bacteriop (1) Tadpole shape (3) Irregular shape		(2) (4)	Rounded shape Rhomboidal sha	ipe
107.	Bacteriophage that (1) Systemic	lyse the bacterial c (2) Virulent	ell sho (3)	rtly after infect Immune	ion are termed as : (4) Temperate
108.	Endosymbiotic evo (1) Chloroplast (3) Golgibodies	lution is supposed	(2)	Mitochondria	est and mitochondria
109.	Becteroids is a spec (1) Photosynthesis (3) Respiration		(2)	ved in : Nitrogen fixat Photorespirati	
110.	Which of the follow A. It is free living B. It is a symbioti	nitrogen fixing bac c nitrogen fixing ba	about cteria		
	C. It is obligate asD. It is obligate ar				
	(1) A and C		(3)	Only C	(4) Onl. D
111.	No. of binding site.	s for O_2 molecules (2) 2		ngle leghaemog	
112.	The final stage of a	lcohol production	-		(4) 4
	(1) Fermentation				(4) 15:
113.	The intoxicating st	ıbstance in beer, w	ine and	l liquor is.	(4) Distillation
	(1) Ethanol	(2) Phenol	(3)	Isopropyalcoh	ol (4) Methanol
114.	The first known an				4 (4) Methanol
	(1) Chlorampheni			Penicillin-C	(4) p
115.		roduction of penic	illin is	: Corn steep lie	(4) Penicillin-F
	(1) Nutrient agar(3) Sulfite waste li	iouor		Whey	980
	- Justrial pro	oduction of stre		- 2·	dar
116.	by-product is:	oduction of sac			
	(1) Vitamin 12	(2) Vilamin C	(3)	Vitamin 6	(4) tabolite or
		(9	9)		T

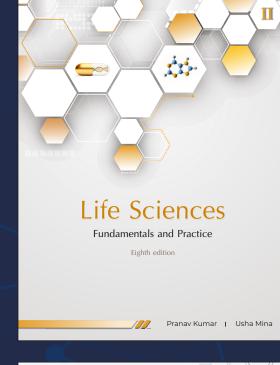
117.	The name 'Smut diseases' is given to the	2000	
	The name 'Smut diseases' is given to the (1) Its mycelium is black in colour	iose	produced by Ustilago because:
	(2) It parasitizes cereals		
	(3) The host becomes completely black	k	
	(4) The fungus produces black sooty s	pore	e masses
118.	'Target board effect' is caused by:	r ~	
	(1) Alternaria (2) Colletotrichum	(3) Puricularia (4) Helminthosporium
119.	Plant disease 'Papaya mosaic' is caused	Lbv	. (2) Tremminosportum
	(1) Bacteria (2) Virus		Fungi (4) Mycoplasma
120.	Heterothallism means:	(0,	(1) mycopiusmu
	(1) Fusion of thalli of same strain	(2)	Fusion of thalli of different strain
	(3) Formation of zygospore		Formation of conidia
121.	Which disease in plants is caused by ba		
	(1) 'Die-back' in citrus		'Tikka' in groundnut
	(3) 'Leaf curl' in tomato	1000	'Stem rot' in maize
122.	A condition of overgrowth or excessive	e d	evelopment of an organ or its parts
	usually due to infection by a pathogen i	is:	900000
	(1) Hypotrophy (2) Atrophy	(3)	Hyperplasia (4) Hypertrophy
123.	The fungicide 'Bordeaux mixture' was o		
	(1) H. Martin	(2)	A. Millardet
	(3) C. A. Peterson	(4)	S. D. Garrett
101	Plantagloving are formed in plants:		
124.		(2)	Before fungal infection
		(4)	All of the above
	the lungicide that is s	yster	THC 15.
125.	Of the following (2) Blue-copper-50	(3)	Indofil-45 (4) Sulfex
	(1) Bavistin The latest model that is proposed	to	explain the structure of plasma
126.	membrane:		
	TI I MAILE	1.1	Fluid mosaic model
	(1) Unit membranes (3) Artificial mode ystem (4) In which of the fo (2) Interphase (5) Prophase II cell cycle:	(4)	Thin lipid layer concept
	(3) At the forwing stages of cell (21VIS	sion the DNA content is doubled?
127	In which or (2) interpresse	(3)	Wetaphase (4) Telophase
	(1) Propries all cell cycle:		
40	$convence (2) G_1, S, G_2, M$	(3)	S, G_1, M, G_2 (4) $M \subset G$
12	(1) G, G ₁ , a pyrimidine nucleotide	bv:	a purine nucleotide is known
		(2)	Frame shift putation
1	29. Replacement mutation (1) Tran mutation (10)		Transition rutation
,	(1)	or 3000	an over the data of a consequence of the last
	(3) P (10)		

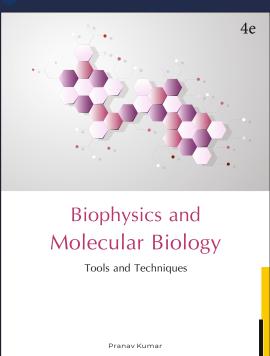
130.	Turner's syndrome is due to: (1) Monosomic chromosome	(2) Trisomic chromosome
	(3) Polysomic chromosome	(4) Bisomic chromosome
131.	Allosomes are: (1) Rounded bodies (3) Sex chromosome	(2) Type of protein (4) Node like structure on chromosome
132	2000	(4) Node like structure on-chromosome ominant or recessive parent is known as :
, oz.	(1) Test cross	(2) Back cross
	(3) Reverse cross	(4) Polygenic inheritance
133.	Which is the characteristics of Euchron	
	(1) Small	(2) Light stained
	(3) Tightly packed	(4) Inactive in transcription
134.	and the state of t	g agent ?
	(1) 5-Bromo uracil	(2) 5-chloro uracil
405	(3) Hydrazine	(4) Ethylethane sulphonate
135.	Which histone is known as linker histo	ne ?
136.	$(1) H_1 \qquad (2) H_2A$	(3) H_3 (4) H_4
130.	The state of the s	
	crossovers that occur is	es are based on the average number of
	descrets that occur during meing	216
		nated by calculating the frequency of
	(3) For small map intervals (<20 cM)	the map distance equal the frequency of
13	a single crossover in the interval.	the map distance equal the frequency of
	(4) The expected frequency of do	uble crossovers is calculated on the
	assumption that the two crossover	occur dependently
137.	Anastral mitosis is characteristics of:	, and the same of
	(1) All living organism	(2) Higher plants
	(3) Lower animals	(A) Higher
138.	The phenomenon of masking the exp	ression of a gene by another non allelic
	gene is known as:	ession of a gene by another non allelic
	(1) Mutation (2) Epistasis	(3) Heterocia
139.	Bar eye in Drosophila is due to:	(4) Dominance
	(1) Duplication (2) Deficiency	(3) Inversion
140.	The phenomenon of heterosis is:	(1) Translocation
	(1) Structural hybridity	
	(3) Hybrid incompatibility	(2) Hybrid serility
		(4) Hybrid vyour
	(11)	

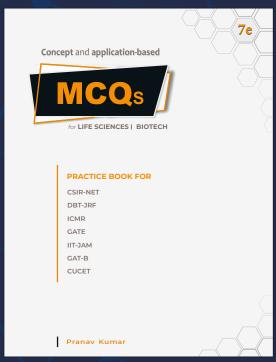
141.	Cytoplasmic male sterility is inherited:		25
	(1) Paternally		Maternally and Maternally both
142.	(3) Bacteriophage multiplication (4) Paternally and Maternally both		
142.	2. A gene which synthesizes a repressor protein is known as:(1) Regulator gene(2) Operator gene		
	(3) Promoter gene		CAP
143.	Which of the following is <i>not</i> related with karyotype?		
	(1) Number of chromosome	(2)	Size of chromosome
	(3) Chemical nature of chromosome		Shape of chromosome
144.	Who wrote the famous book 'Origin of Species'?		
	(1) Lamarck		Charles Darwin Mendel
	(3) De Vries		
145.	XX-XO type of sex determination is four (1) Hen (2) Cock	(3)	Grasshopper (4) Rumex sp.
1/16	The most important use of haploids in the production of:		
146.	(1) Homozygous diploids	(2)	Helefozygous arpioras
	(3) Amphidiploids	(4)	Segmental allopolyploids
147.	Raphanobrassica is an example of:		
	(1) Haploid	(2)	Diploid
	(3) Autopolyploid		Allopolyploid
148.	Which statement is <i>incorrect</i> for multiple allelism?		
	(1) Eye colour in drosophilla is an example of multiple allelism. (2) ABO blood groups in humans is due to multiple allelism.		
	(2) ABO blood groups in numerical state to the first of the follows Mendel's concept of inheritance. (3) It follows Mendel's concept of inheritance.		
	(3) It follows Mendel's concept of inheritance.(4) Skin colour in rodents may be explain by multiple allelism concept.		
	Meiosis involves:		
149.	(1) One division of nucleus and one division of chromosome (2) Two division of nucleus and one division of chromosome		
	(3) One division of the		ion of chromosome
	Thurs division of free		
150.	(4) Two division of nucleus and two division of enrollments. (4) Two division of nucleus and two division of enrollments. (5) Old (6) Two division of nucleus and two division of enrollments.		
	(1) It is a cross between a single pair of alleles. a single pair of alleles.		- 1
	 (1) It is a cross a single pair of alleles. a single pair of alleles. (2) Phenotypic ratio in f₁ generation is 9:3:3:1. (2) Phenotypic ratio of 1:2:1 in f₂ generation. 		
	a single part of the strate and a single trait. (2) Phenotypic ratio in f ₂ generation is 9:3:3:1. (3) It produces genotypic ratio of 1:2:1 in f ₂ generation. (4) It strates the inheritance of a single trait.		
	(4) It styles		











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(इस पुरितका के प्रथम आवरण-पृष्ट पर तथा ओ०एम०आर० उत्तर-पत्र के दोनों पृष्ठों पर केवल **नीली।काली बाल-पाइंट पेन** से ही लिखें)

- 1. प्रश्न पुरितका मिलने के 30 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 पुरितका 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 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-पुरितका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक संख्या और ओ० एम० आर० 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 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 गाढ़ा 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 भून्य अंक दिये जायेंगे।

11. एफ कार्य के लिये इस पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का

प्रयाग परी के उपरान्त केवलगो० एम० आर० उत्तर-पत्र ही परीक्षा भवन में जमा करें।
12. परीक्षा के उपरान्त केवलगो० एम० आर० उत्तर-पत्र ही परीक्षा भवन में जमा करें।

12. परादा। पर होने से पर्ग परीक्षा भवन से बाहर जाने की अनुमित नहीं होगी।
13. परीक्षा समाप्त होने से पर्ग अनुचित साधनों का क्लेस 13. परीक्षा समापा करता है, तो वह विश्वविद्यालय द्वारा निर्धारित 14. यदि कोई अभागी हो हो गी।

दंड का / की भागी हो होगी।