# BOTAMY

16P/219/22

1984

	Question Booklet No
(To be filled up by the ca	lidate by blue/black ball-point pen)
Roll No.	
Roll No. (Write the digits in words)	Code N. (495)
Serial No. of OMR Answer Sheet	
Day and Date	(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





### No. of Questions: 150

Time .	: 2 Hours ]					1	Full Marks: 450
Note:							3 (three) marks.
					incorrect answ	er. 2	Zero mark will be
			attempted questio		w 10.1		
	(ii) If more than on	e alte	rnative answers	seem	to be approximat	e to t	he correct answer,
4	choose the close	4.4					
1.	The cell wall of dia			(2)	0.11		
2	(1) Protein			(3)	Silica	(4)	Galactoside
۷.	Iodine is commerci (1) <i>Gelidium</i>			(0)	<i>C</i>	***	
2			Ulva		Gracilaria		Laminaria
3.	Which of the follow sexuality?	ving	classes of fungi	shov	vs highest degre	ee of	degeneration of
	(1) Phycomyces	(2)	Doutromynatas	(2)	Pacidiamyraatu	a (1)	
Δ			Deutromycetes	(3)	Dasidiomycele	S (4)	Ascomycetes
٦.	Which among the f (1) Pellia					(1)	D II
5.			Sphagnum .		Funaria		Porella
٥.	Microsporangia an (1) Selaginella	(2)	Dryopteris	(2)	med in the sam		
6.					Equisetum		Lycopodium
0.	Which one of the fo	(2)	Fucovanthin	nts 1	Soluble in wat	er?	
7.	(1) Carotenoids Which of the follow	rina	function in the	(5)	Chlorophylis	(4)	Phyeocyanin
	Which of the follow (1) Rust fungi		Yeast	un s	ource of vitamin	is?	
8.				(3)	Bread Mould	(4)	Smut fungi
0.	Sporogonium of Ri (1) Seta and capsul	ccia i le	s differentiated	into	:		
	(3) A simple capsu	le		(2)	Foot, seta and co	apsui	p
•	Vall	···		(4)	Foot and sita or	dy	
9.	When sporangia in (1) Leptosporangia (2) Heterosporangia	a rer	n develop from	a sin	gle initial cll, it i	S	
	(3) Heterosporang	iato		(2)	Eusporangte	(all	ed:
	(5) Heterosporang	iate	400 - M. C. S. C.	(4)	Asporangia		
10.	Which of the follow	ring a	algal thallus is co	onsic	lered as high		
	Which of the follow (1) Simple filamen	tous		(2)	Colonial Colonial	ved :	i e
	(3) Heterotrichous	-		(4)	Siphonaceou	4 /	
	(0)		/ / \	39375	1		
			(1)				

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11.	In which one of the (1) <i>Dictyota</i>	following algae oc (2) Oedogonium	ogamot (3)	as sexual reprod <i>Chara</i>		on is <i>not</i> found ? <i>Zygnema</i>
12.	Which of the follow (1) Bordeaux mixt (3) 2, 4-D	ving is a fungicide	? (2)	D. D. T. Amphicilin		
13.	Elators are present (1) Selaginella	in the sporogonium (2) Riccia		Marchantia	(4)	Sphagnum
14.	Amphiphloeic siph (1) Ophioglossum			Pteris	(4)	Lycopodium
15.	Isomorphic alterna (1) Fritschiella	tion of generation (2) Vaucheria		d in : <i>Spirogyra</i>	(4)	Volvox
16.	What is the mode of (1) Autotrophic	(2) Parasitic	(3)	Symbiotic	0.500	Saprophytic
	In which of the bry	vophyte a highest	degree	e of sporogenou	s tiss	sue sterilization
	is found? (1) Funaria	(2) Riccia	(3)	Anthoceros	(4)	Marchantia
18.	(1) Polysiphonia (3) Sargassum	kes place in :		Ulothrix Draparnoldiopsi	is	
19.	Which one of the fo (1) Uredospore	ollowing spores of (2) Teleutospore		William Administration of the Company of the Compan	(4)	Basidiospore
20.	Heterothallism in fi (1) Bessey	(2) Robert Hook	e (3)	Saccordo		Blakeslee
21.	In bryophytes redu (1) Sex organ form (3) Gamete format	lation	(4)	e at the time of : Spore formatio Capsule forma	A.L	
22.	Porphyra is:  (1) A source of alg  (3) Rich in fucoxa	ginate nthin	(1)	An edible alga A source of ioc	line	
23	Potato famine III .	(2) Albugo	by mas (3)	sive attack of the Phytophthora	e fur (4)	ngus : Ustilago
2	Potato famine (1) Alternaria  S. R. Kashyap is famine (1) Phycology (1) Phycology Which one of phycoerythrin (1) 420 nm (1)	mous in the field of L-(2) Bryology	(3) elength	Mycology s of visible lie	(4)	Pteridology
	(1) The one of	hent?	iciigu.	is or rision ing	111 15	absorbed by
	25. Which phycoerythrif	(2) 610 nm	(3)	660 nm	(4)	540 nm
	(1)		,			



26.	Ocheate stipules are (1) Citrus	2223	nd in : <i>Ixora</i>	(3)	Polygonum	(4)	Ageratum
27.	Winged petioles are	, ,		(-)	30		
21.	(1) Aegle		Argemone	(3)	Callistemon	(4)	Citrus
28.	Which of the follow	ing	is partial root pa	rasi	te?		
	(1) Striga	1	Parthenium	1	Loranthus		Nepenthes
29.	Total number of ser	ies i	n Bentham and l	Hoo	kers system of cl		
	(1) 19	(2)	21	(3)	15	(4)	24
30.	Ligulate leaves are						
	(1) Liliaceae	(2)	Zingiberaceae	(3)	Euphorbiaceae	(4)	Cycas
31.	Flowers are unisexu						
	(1) Zingiberaceae	74 727		(3)	Euphorbiaceae	(4)	Rutaceae
32.	Floral bud is modifi						
	(1) Antigonon	- 95	Pisum	, ,	Coccinia	(4)	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	ı
	(2) Monothecous a	nthe	ers, superior ova	ry ai	nd axile placenta	tion	l.
	(3) Syngenesious s	tam	ens, cypsella frui	its a	nd superior ovar	У	
0.4	(4) Superior ovary	, bas	al placentation a	ind (	exstipulate leave	S	
34.	Pentoxylon was dis	COVE	Paimale Birbal Sa	hni	from:		
0.5	(1) Nilgiri Hills	(2)	Rajmanal Hills	(3)	Western Ghats	(4)	Satpura Hills
35.	Cycas ovule is:						
	(1) Campylotropou	18			Hemianatropou	lS	
20	(3) Orthotropous	/	· n. i	(4)	1		
36.	Birbal Sahni Institu	(2)	Palaeobotany is			12000	
	(1) New Delhi		Lucknow		Dehradun	(4)	Bhubaneshwar
37.	Stevia rebaudiana a r	atu	ral sweetner plan	93,10000		:	
9113 Dr	(1) Asteraceae		Solanaceae	(3)	Poaceae	(4)	Apiaceae
38.	Branched stamens a		ound in :				ruccae
	(1) Triticum aestivu			(2)	Calotropis procert	7	
	(3) Ricinus commun			(4)	Solanum nigrum		
39.	Which type of embr		ac is found in Al	lium	1?		
	(1) Monosporic typ			(2)	Bisporic typ		
	(3) Tetrasporic type			(4)	Polygonum pe		
40.	In angiosperms, em	bry	osac represents :		7.		
	(1) Megagametopl	yte		(2)	Megaspororo		
	(3) Megagamete	40		(4)	aspore >		
	1-7		(3)		-016		



41.	Cortical vascular bu						
	(1) Salvadora	(2)	Achyranthes	(3)	Nyctanthes	(4)	Boerhavia
42.	Permit the Se	eds	develops from:				
43	(1) Nucellus Pollination the 1	(2)	Funiculus	(3)	Hilum	(4)	Ovary wall
10.	Pollination through (1) Calotropis	lev	er mechanism ta			(4)	771.:11
44.	Sunkened stomata	(4)	Salvia	(3)	Ficus	(4)	Hydrilla
	(1) Pinus needles						
	(3) Gnetum leaves			root	S		
45.	Trimerous flowers,	SUD	erior ovary and a	axile	placentation is	foun	d in :
	(1) Solanaceae	(2)	Liliaceae	(3)	Cucurbitaceae	(4)	Asteraceae
46.	Tricarpellary, synca						
	(1) Asteraceae					(4)	Poaceae
47.	Winged seeds are fo	unc	d in:				
	(1) Pinus	(2)	Cycas	(3)	Papaver	(4)	Adhatoda
48.	Parachute mechanis	sm o	f seed dispersal	is du	ue to:		
	(1) Bracts		Pappus		Tepals	(4)	Thorns
49.	The endosperm of F	inus					
	(1) Triploid	(2)	Haploid	(3)	Diploid	(4)	Tetraploid
50.	Gynobasic style is fo	oun	d in the family:				
	(1) Ranunculaceae	(2)	Papaveraceae	(3)	Apiaceae		Lamiaceae
51.	"Rate of change of n	uml	per of species per	r uni	it change in habi	itat"	is known as
	(1) Alpha diversity	(2)	Beta diversity	(3)	Gama diversity	(4)	Biodiversity
52.	Which of the follow	ing	has been recogni	ized	as a mega diver	se co	ountry?
	(1) New Zealand	(2)	Austria	(3)	Australia	(4)	Nepal
							_
53.	Taiga represents:  (1) Northern coniferate doci	erou	s forests	(2)	Temperate gras	slan	d
			Clo TOT COTO			land	
	Lofthe lollow	ing	is submerged my	uio	phyte.		
54.	(1) Eichhornia	(2)	Azolla	(3)	Vallisneria	(4)	Lemma
	41/11/11/1	biod	iversity is found	in:			
55.	In India maximo			(2)	Western Ghats		
55.	(1) Gangerianala	an	region	(4)	Eastern Gnats		
	(1) Gangetic Plain (3) Trans-Himala	us"	is used to refer:				
	(1) Ganger Himal? (3) Trans-Himal?  The term "stenoes range (1) Narrow range (1) Wide range	of ter	mperature tolera	nce			
5	6. The terrow rain	alin	ity tolerance				
	(1) Wide range	of fo	od selection				
	(2) Narrow rai	alba	selection				
	6. The term "stern" (1) Narrow range (2) Wide range (3) Narrow ran (4) Narrow (4)		(4)				
	(4)		(B) (B)				



57.	Which of the follow (1) <i>Hg</i>	ing c (2)	-		sease ? Pb	(4)	Cd
58.	The average salinity (1) 35%		ea water is : 3.5%	(3)	5.3%	(4)	0.35%
59.	The term "aufwuchs (1) Plankton		used to refer : Nekton	(3)	Neuston	(4)	Periphyton
60.	Which one of the fo (1) Small pox		ing is a water bo Cholera		disease ? Malaria	(4)	Tuberculosis
61.	Marginal necrosis a (1) SO <sub>2</sub> toxicity (3) Ozone toxicity	nd ti	p-burn in leave:	(2)	diagnostic sym NO <sub>2</sub> toxicity Fluoride toxicit		n of :
62.	(2) Thorne toxicity						
63.	The process of pods (1) Cold humid clir (3) Dry tropical clir	oliza nate	tion generally o	(2)			3
64.	Which of the follow growth?	ing f	orm of soil wate				
	<ol> <li>Hygroscopic wa</li> <li>Capillary water</li> </ol>			(4)	Gravitational w Echard water		
65.	In an ecological so themselves in the ne (1) Nudation	· Pi	acc is known a	s:		mig	rants establish
00			Migration		Ececis	(4)	Aggregation
	Climax stage is pred (1) High entropy (2) K-selection type (3) Species with bro (4) Open nutrient cy	spec ad n	ries		by:	•	
67.	Which of the following (1) Sulphur dioxide (2) Fluoride pollution (3) Methyl isocyana (4) Ozone depletion	- 1 ee on - E te - A	ath Bhopal gas trage Acid rain		hed ?		

68.	J-shaped population growth curve is <b>no</b> . (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 comm	mon pattern of population dispersion?
	(1) Random (2) Contagious	(3) Regular (4) Uniform
71.	Acid rain has pH:	(1) -16
	(1) < 7.6 $(2)$ < 7.0	(3) < 5.6 $(4) < 1.6$
72.	The "continuum" concept of vegetation (1) Individualistic approach (3) Typal approach	(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	cator of:
	<ol> <li>Nutrient enrichment</li> <li>Pollution due to pesticides</li> </ol>	(4) Pollution due to metals
76.	A plant growth regulator related to inh (1) Ethylene (3) Jasmonic acid	(4) Gibberellic acid
77.	Function of leg haemoglobin in root no (1) To prevent respiratory O <sub>2</sub> uptake	(4) To remove $O_2$
70	pressure deficit of a fully tur	gid cell is equal to :
78.		
	Turgor pressure of cen	
	(2) Osmotic Pressure 1	essures of the cell
	(4) Product of teas	codons is meant for the termination of
	Which of the londwing group?	
7	9. Whitesis of polypiplide Cham.	(2) 1110, 010, 001
	(1) AUA, GAU, WA	(4) UAA, UAC, UGA
	synthesis of polypipade synthesis of polypipade (1) AUA, GAU, LGA (3) AUA, AGU, LAA (6)	)
	10	· A



80.		anism used by Calvin for 'Calvin Cyc	cle
	were: (1) X-ray technique and Chlamydomona	uas	
	(2) Radioactive isotope technique and		
	(3) Radioactive isotope technique and		
	(4) Nuclear magnetic resonance techn	nique and Spirogyra	
81.	1 0	induction and seed germination is:  (3) Plastocyanin (4) Phytochrom	ie
82.	The bacterial genera carrying out	nitrification, nitration, asymbiotic a	nc
	symbiotic nitrogen fixation, respective		
	(1) Rhizobium Azotobacter, Nitrosomona		
	<ol> <li>Nitrosomonas, Nitrobacter, Rhizobium</li> <li>Nitrosomonas, Nitrobacter, Azotobact</li> </ol>	m and Azotobacter	
	(4) Nitrobacter, Nitrosomonas, Azotobact	ter and Rhizohium	
83.			
	(1) Pyruvic acid	(2) Malic acid	
	(3) α-Ketoglutaric acid	(4) Oxaloacetic acid	
84.	The terms, 'apoplast' and 'symplast' we		
	(1) Dixon (2) Clark	(3) Munch (4) Fisher	
85.	In split genes, the coding sequence is ca		
	(1) Sistrons (2) Operons	(3) Exons (4) Introns	
86.	Which of the following molecule has be	ooth α 1-4 and α 1-6 linkages?	
	(1) Maltose (2) Cellulose	(3) Amylose (4) Amylonectic	)
87.	The pathway that converts fat to carbo	ohydrate is:	L
	(1) Calvin pathway	(2) Glyoxylate pathway	
00	(3) C <sub>4</sub> pathway	(4) Glycolate pathway	
88.	Which of the following plant is an exam		
	(1) Mirabilis jalapa (3) Xanthium strumarium	(2) Beta vulgaris	
00		(4) Lycopersicum esculentum	
89.	Which of the following nutrient element (1) Phosphorus (2) Potassium	nts is most mobile in plants?	
	(1) Thosphoras (2) Totassiam	(3) Calcium (4) Magnesium	
90.	Which of the following enzyme is a mit (1) Aldolase	enzyme 2	
	(3) Succinic dehydrogenase	(2) Amylase	
		(2) Amylase (4) Pyruvate deh	
91.	In chloroplast, 'ATP synthase is located		
	(1) Inner membrane	(2) Outer menrane	
	(3) Thylakoid menbrane	(4) Grana	
	(7)		
	( / )	(	





92.	During EMP pathway (1) Oxidative phospl (3) Sustrate level phospl	horylation	(2)	Cyclic phospho		
93.	Which of the followin (1) Carotenoids (			water? Phycocyanin	(4)	Xanthophylls
94.	Aptamers are: (1) RNA molecules			Protein		Amino acids
95.	In photosynthetic eleurea inhibit electron (1) P <sub>682</sub> and Ubiquin	transport between :	(2)	Cytochrome f a	nd P	lastocyanin
	(3) Plastoquinone ar			Ubiquinone and	d Pla	istoquinone
96.	Which of the following		s Di	VA replication?	II	
	(1) DNA polymerase			DNA polymera RNA polymera		
07	(3) DNA polymeras	e III	(4)	atogral part of	whi	ch unit of the
97.	The peptidyl transfer	erase enzyme is a	111 11	megrar part of		
	ribosome: (1) 305 (	2) 705	(3)	50S	(4)	A site of 30S
98.	Cellulose is polymer					
00.	(1) $\alpha$ -1 -Glucose (	2) β-D-Glucose	(3)	α-D -Glucose	(4)	β-L -Glucose
99.	Glutathione is a:					
	<ol> <li>Dipeptide</li> <li>Monosaccharide</li> </ol>		(4)	Tripeptide Disaccharide		
100.	Ethylene is produced (1) Methionine	(2) Irvotophan	(0)	Tyrosine		Serine
101.	A mutant of E-coli gr The most likely meta (1) Glyoxalate cycle	abone paniway that	(2)	Hexose monop	hosp	phate shunt athway
	(3) Krebs cycle Under which phase	e of bacterial grow	th b	acteria increases	s in	size but do not
102.	divide?	(2) Log	(3)	Stationary	(4)	Death phase
	(1) Lag	nav be methods fo	r th	e inhibition of r	nicro	obial growth by
	All the following antibiotics except antibiotics except (1) Antibiotics into (2) Antibiotics principles (2) Antibiotics principles (3) Antibiotics in (3) Antibiotics in (4) Antibiotics in (5) Antibiotics in (6) Antibiotics	)				
10	3. All dibiotics exceller	upt cell wall synthe	esis			
	Antibiotr is inter	rfece with cell mem	ibrai	ne function		
	(1) Antibious pri	vent the release of e	nerg	y from A11		
	(2) Antibio csin	bit the synthesis of	prot	ein /		
	(3) Antib)	upt cell wall synther rfece with cell mem yent the release of e bit the synthesis of (8)		12.5		



104.	A bacterial culture	contained 32 bling time was	× 10 <sup>6</sup> ce 30 mir	ells after 2.5 ho n, what was th	e initial population
	, ,1,	7			
	(1) $20 \times 10^4$ cells	(2) $10 \times 10^5$ cel	ls (3)	$40 \times 10^{\circ}$ cells	(4) 16 × 10 ccns
105.	Genome of HIV is:			ds DNA	(4) ds RNA
	(1) ss DNA	(2) ss RNA	50		(2)
106.	A T-series bacterio	phage can be reco	ognizea (2)	Rounded shape	
	<ul><li>(1) Tadpole shape</li><li>(3) Irregular shape</li></ul>			Rhomboidal sha	
107.	Bacteriophage that	lyse the bacteria			
107.	(1) Systemic	(2) Virulent	(3)	Immune	(4) Temperate
108.	Endosymbiotic evo	olution is suppose	ed to be	occurred for:	
	(1) Chloroplast		(2)	Mitochondria	1 1 1
	(3) Golgibodies		(4)	Both chloropla	ast and mitochondria
109.					
	(1) Photosynthesis	5		Nitrogen fixat	
440	(3) Respiration	wing is / an-		) Photorespirat	ion
110.	Which of the follow A. It is free living				
	B. It is a symbioti				
	C. It is obligate as		Dacterr	CA.	
	D. It is obligate an				
	(1) A and C	(2) A and D		) Only C	(4) Only B
111.	No. of binding site	s for O2 molecule	es in a s	ingle leghaemog	lobin molocula
	(1) 1	(2) 2	(3)	1_3	(4) 4
112.	The final stage of a				., .
	(1) Fermentation			) Proofing	(4) Distillation
113.	The intoxicating st	Transport Property (Control of the Control of the C	wine ar	id liquor is.	Distillation
	(1) Ethanol	(2) Phenol	(3	) Isopropyalcol	ol (4) Methanol
114.	The first known ar			N. Dentellin (	(1) Wethanol
	(1) Chloramphen			) rendim-C	(4) Por
115.				s : !) Corn steep lic	(4) Penicillin-F
	(1) Nutrient agar	ionor	,	Whey	1
	(3) Sulfite waste!	reduction of at			udas
116.	In industrial pr	oduction of St	reprom	yell the secon	
	by-product is: (1) Vitamin 12	(2) Vitamin C	(3	3) Vitamin 6	(4) 'abolite or
			(9)		T

117.	The name 'Smut diseases' is given to the (1) Its mycelium is black in colour (2) It parasitizes cereals (3) The host becomes completely black (4) The formula (4) The formula (5) and (6) The formula (6) The formula (7) The	k	
	(4) The tungus produces black sooty s	pore	masses
118.	'Target board effect' is caused by:		
	(1) Alternaria (2) Colletotrichum	(3)	Pyricularia (4) Helminthosporium
119.	Plant disease 'Papaya mosaic' is caused	by:	
120.	Heterothallism means:	(3)	Fungi (4) Mycoplasma
	(1) Fusion of thalli of same strain (3) Formation of zygospore	2.0	Fusion of thalli of different strain Formation of conidia
121.	Which disease in plants is caused by ba		
	(1) 'Die-back' in citrus (3) 'Leaf curl' in tomato	(2)	'Tikka' in groundnut 'Stem rot' in maize
122.	A condition of overgrowth or excessive	re de	evelopment of an organ or its part
	usually due to infection by a pathogen i		
	(1) Hypotrophy (2) Atrophy	(3)	Hyperplasia (4) Hypertrophy
123.	The fungicide 'Bordeaux mixture' was o	lisco	vered by:
	(1) H. Martin		A. Millardet
	(3) C. A. Peterson	(4)	S. D. Garrett
404	plantagloving are formed in plants:		
124.	(1) After fungal infection	(2)	Before fungal infection
	a Carri Chilliant Water Francis	(4)	All of the above
	thousing, the fungicide that is s	Sici	IIIC 13.
125.	(1) Bavistin (2) Blue-copper-50	(3)	Indofil-45 (4) Sulfex
	(1) Bavistin (2) Bille copperson The latest model that is proposed	to	explain the structure of plasma
126.	The latest		
	membrane:  (1) Unit membrane nodel  Artificial mode ystem		Fluid mosaic model
	(1) Unit membraner (3) Artificial mode wing stages of cell of the form		Thin lipid layer concept
	(3) Artificial moderning stages of cell of the formula (2) Interphase	divis	ion the DNA content is doubled?
127	(1) Prophase Il cell cycle:	(3)	Metaphase (4) Telophase
	(1) Proplition all cell cycle:	200	
40	8. The sequence (2) $G_1$ , $S$ , $G_2$ , $M$	(3)	$S, G_1, M, G_2$ (4) $M, G_1, G_2, S$
12	C (11) : :::4: 1 ::1	by a	purine nucleotide is known
	29. Replacementation (1) Tran mutation (1) Tran mutation (1) Tran mutation	(2)	Frame shift nutation
1	29. Replacementation		Transition rutation
	(1) 1177		
	(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	(2) Type of protein
	(3) Sex chromosome	(4) Node like structure on-chromosom
132.	The cross of $f$ , hybrid with either its de	ominant or recessive parent is known as :
	(1) Test cross	(2) Back cross
	(3) Reverse cross	(4) Polygenic inheritance
133.	Which is the characteristics of Euchron	matin ?
	(1) Small	(2) Light stained
	(3) Tightly packed	(4) Inactive in transcription
134.	Which one of the following is alkylating	ng agent ?
	(1) 5-Bromo uracil	(2) 5-chloro uracil
	(3) Hydrazine	(4) Ethylethane sulphonate
135.	Which histone is known as linker histo	one?
	(1) $H_1$ (2) $H_2A$	(3) $H_3$ (4) $H_4$
136.	otatement is incorrect?	
	(1) The genetic maps of chromosom	es are based on the average number o
	crossovers that occur during meio	eje
	(2) Genetic map distances are estimated	mated by calculating the frequency
	recommunication between donor in a	
	(3) For small map intervals (<20 cM).	the map distance equal the frequency of
	a single crossover in the interval.	qual the frequency of
	(4) The expected frequency of do	ouble crossovers is calculated on the
	- Crossover	occur dependently.
137.	Anastral mitosis is characteristics of	
	(1) All living organism	(2) Higher plants
	(3) Lower animals	(1) Lighter
38.	The phenomenon of masking the exp	ression of a gene by another non allelic
	gene is known as:	ression of a gene by another non allelic
	(1) Mutation (2) Epistasis	(3) Heterosis
39.	Bar eye in Drosophila is due to :	(4) Dominance
00.	(1) Duplication (2) Deficiency	
		(3) Inversion
40.	The phenomenon of heterosis is:	(1) Translocation
	(1) Structural hybridity	(2) Hybrid serility
	(3) Hybrid incompatibility	(4) Hybrid vyour
	(11)	your
	(11)	



1.11	Cutanlandania and a statistica in inhasitada		
141.	Cytoplasmic male sterility is inherited: (1) Paternally	(2) Maternally	
	(3) Bacteriophage multiplication	(4) Paternally and Maternally both	
142.	A gene which synthesizes a repressor protein is known as:		
112,	(1) Regulator gene (2) Operator gene		
	(3) Promoter gene	(4) CAP	
143.	Which of the following is not related with karyotype?		
	(1) Number of chromosome	(2) Size of chromosome	
	(3) Chemical nature of chromosome	(4) Shape of chromosome	
144.	Who wrote the famous book 'Origin of S	Species'?	
	(1) Lamarck	(2) Charles Darwin	
	(3) De Vries	(4) Mendel	
145.	XX-XO type of sex determination is four	nd in:	
	(1) Hen (2) Cock	(3) Grasshopper (4) Rumex sp.	
146.	The most important use of haploids in the production of:		
	(1) Homozygous diploids	<ul><li>(2) Heterozygous diploids</li><li>(4) Segmental allopolyploids</li></ul>	
	(3) Amphidiploids	(4) Segmental and party	
147.	Raphanobrassica is an example of:	(2) Diploid	
	(1) Haploid	(4) Allopolyploid	
	(3) Autopolyploid		
148.	Which statement is <i>incorrect</i> for multiple allelism?  (1) Eye colour in drosophilla is an example of multiple allelism.		
	(1) Eye colour in drosophina is all extra (2) ABO blood groups in humans is du	ue to multiple allelism.	
	(2) ABC) blood groups in reduction is a second of the seco	ritance.	
	<ul><li>(3) It follows Mendel's concept of inner</li><li>(4) Skin colour in rodents may be explain</li></ul>	ain by multiple allelism concept.	
	Meiosis involves:		
149.	Meiosis involves:  (1) One division of nucleus and	vision of chromosome	
	(2) Two division of flucteus and one division of chromosome		
	(3) One division of materials	limicion of chromosome	
	Two division of the		
450	Which one of the following is not chara	anism in order to study the inheritance of	
150	1 27055 001110		
	(1) It is a cross permeters a single pair of alleles.  a single pair of alleles.  a single pair ratio in f, generation is 9:3:3:1.		
	WITH A CHARLES		
	a single part of the single part		
	It studies the internation		
	(4) 11 33		



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## अभ्यर्थियों के लिए निर्देश

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

- 1. प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुरितका 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 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. रफ कार्य के लिये इस पुरितका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का
- परीक्षा के उपरान्त केवल गो० एम० आर० उत्तर-पत्र ही परीक्षा भवन में जमा करें।
- 12. परादा पर होने से पर्न परीक्षा भवन से बाहर जाने की अनुमित नहीं होगी।
  13. परीक्षा समाप्त होने से परीक्षे अनुचित साधनों का समीप 13. परीक्षा समाना परीक्ष्में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित 14. यदि कोई अभगी हो होगी।
  - दंड का / की भागी हो होगी।

