Hall Ticket Number		
	Q.B. No. 100957	100957

Booklet Code :

Marks : 100

JL-415-BOT

Time: 120 Minutes

Paper-III

Signature of the Candidate

Signature of the Invigilator

INSTRUCTIONS TO THE CANDIDATE (Read the Instructions carefully before Answering)

 Separate Optical Mark Reader (OMR) Answer Sheet is supplied to you along with Question Paper Booklet. Please read and follow the instructions on the OMR Answer Sheet for marking the responses and the required data.

2. The candidate should ensure that the Booklet Code printed on OMR Answer

Sheet and Booklet Code supplied are same.

3. Immediately on opening the Question Paper Booklet by tearing off the paper seal, please check for (i) The same booklet code (A/B/C/D) on each page. (ii) Serial Number of the questions (1-100), (iii) The number of pages and (iv) Correct Printing. In case of any defect, please report to the invigilator and ask for replacement of booklet with same code within five minutes from the commencement of the test.

4. Electronic gadgets like Cell Phone, Calculator, Watches and Mathematical/Log

Tables are not permitted into the examination hall.

- There will be 1/4 negative mark for every wrong answer. However, if the
 response to the question is left blank without answering, there will be no penalty
 of negative mark for that question.
- 6. Record your answer on the OMR answer sheet by using Blue/Black ball point pen to darken the appropriate circles of (1), (2), (3) or (4) corresponding to the concerned question number in the OMR answer sheet. Darkening of more than one circle against any question automatically gets invalidated and will be treated as wrong answer.

Change of an answer is NOT allowed.

- Rough work should be done only in the space provided in the Question Paper Booklet.
- Return the OMR Answer Sheet and Question Paper Booklet to the invigilator before leaving the examination hall. Failure to return the OMR sheet and Question Paper Booklet is liable for criminal action.

This Booklet consists of 13 Pages for 100 Questions +2 pages of Rough Work +1 Title Page i.e. Total 16 pages

1.	"Fath	ner of Phycology" is :					
	(1)	MOP Iyengar	(2)	Theophrastus			
		* Linnaeus	(4)	F.E. Fritsch			
2.		se the correct pair :					
	A.	Diatoms - Kieselguhr					
	В.	Agar-Agar — Chondrus spe	cies				
	C.	Algal bloom - Microcystis					
	D.	Carrageenan — Eicklonia s					
	(1)	A, C, D	(2)	A, B, C			
	(3)	A, B, D	(4)	A, B, C, D			
3.		h of the following is a azoto					
0.	(1)	Labaria	(2)	Rhizobium			
	(3)	Cladonia	(4)	Frankia			
4.		nge the following viruses in					
7.	A.	Polio	B.	Influenza			
	C.		D.	Pox Virus			
		Herpis	(2)	D, C, B, A			
	(1)	C, A, B, D	2,470,000				
-	(3)	D, A, B, C	(4)	B, C, A, D			
5.	0,000	y the following statements as					
	A.	In most of the fungi cell w					
	В.	when susceptible host is a		saprophytes and becomes parasition			
	C.						
	D.	Dolipore septum is the cha	racteristic	feature of Myxomycotina.			
	(1)	A, B, D	(2)	B, C, D			
	(3)	A, B, C	(4)	A, B, C, D			
6.	Conidia are formed on 'Synnemata' in :						
	(1)	Blastomycetes	(2)	Hyphomycetes			
	(3)	Coclomycetes	(4)	Gasteromycetes			
7.	Plasmids of bacteria has :						
	(1)	ss-DNA	(2)	ds-DNA			
	(3)	ss-RNA	(4)	ds-RNA			
8,	4500.7	y the following statements as					
	A.		l wall, Tei	choic acid is present and it is absent			
	B. Bacterial capsule protects pathogenic bacteria from phagocytosis.						
	Č.						
	 C. Pili are flagellar apparatus in bacteria. D. Gram positive bacteria are less sensitive to penicillin than gram negative bacteria. 						
	(1)	A, B, C, D	(2)	B, C, D			
	(3)	B, C	(4)	A, B			
9.	250200		960 9305	on posterior side is seen in :			
J.	(1)	Chytridiomycetes	(2)	Hypochytridiomycetes			
			(4)	Trichomycetes			
10.	(3)	Oomycetes					
10.		sexuality was first noticed in		Penicillium notatum			
	(1)	Aspergillus nidulans	(2)				
	(3)	Rhizopus oryzae	(4)	Mucor mucedo			

11.	The	multidisciplinary integral approac	h for	taxonomical studies is called	::		
	(1)	Alpha taxonomy	(2)	Omega taxonomy			
	(3)	Chemo taxonomy	(4)	Numerical taxonomy			
12.	Chlo	proxylon swietienia belongs to the	family	2.\$			
	(1)	Magnoliaceae	(2)	Malvaceae			
	(3)	Rutaceae	(4)	Asclepiadaceae			
13.	Cho	ose the correct pair(s):					
	A.	Tepals — Amaranthaceae					
	B.	Polyadelphous — Rutaceae					
	C.	C. Dumbel stigma — Magnoliaceae					
	D.	Translator — Asclepiadaceae					
	(1)	A, B, C, D	(2)	A, B, C			
	(3)	A, B, D	(4)	B, C, D			
14.	The	fruit is Carcerulus in :					
	(1)	Amaranthaceae	(2)	Lamiaceae			
	(3)	Apocyanaceae	(4)	Magnoliacae			
15.	The	oldest established Herbarium is h	oused	in :			
	(1)	Kolkata	(2)	London			
	(3)	Paris	(4)	New York			
16.	"Principle of priority" is :						
	(1)	Principle 6 of ICBN					
	(2)	Earliest published name to be r	etaine	d for a taxa if species has m	ore		
		than one name					
	(3)	Name of the taxon should posse	ss cla	ssification			
	(4)	Tautonyms are valid in the nam	ing ta	xa			
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17.	A dı	uplicate of holotype is known as	1					
	(1)	Isotype	(2)	Paratype				
	(3)	Syntype	(4)	Neotype				
18.	Mate	ch the following:						
	Α.	Polyadelphous	1.	Ocimum sp.				
	В.	Obdiplostemonous	2.	Malva sp.				
	C.	Monadelphous	3.	Cyanodon sp.				
	D.	Didynamous	4.	Murraya sp.				
	E.	Versatile stamens	5.	Calotropis sp.				
			6.	Citrus sp.				
	(1)	A-4, B-6, C-2, D-3, E-1						
	(2)	A-5, B-4, C-2, D-1, E-3						
	(3)	A-6, B-4, C-2, D-1, E-3		हैं				
	(4)	A-6, B-2, C-4, D-1, E-5						
19.	Angiosperm phylogency group (APG) was first published in the year :							
	(1)	1992	(2)	1996				
	(3)	1998	(4)	2000				
20.	With	reference to seed dormancy, m	atch t	he following:				
	A.	Amaranthus sp.	1.	Hard seed coat				
	B.	Crotalaria sp.	2.	Seed coat impermeable to water				
	C.	Orchis sp.	3.	Seed coat impermeable to air				
	D.	Xanthium sp.	4.	Immature embryos				
	(1)	A-3, B-2, C-1, D-4						
	(2)	A-1, B-3, C-4, D-2						
	(3)	A-4, B-3, C-2, D-1						
	(4)	A-1, B-2, C-4, D-3		N#				
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21.	Which of the following chemical constituents are used in chemotaxonomy?							
	(1)	Primary macromolecules						
	(2)	(2) Secondary macromolecules						
	(3)	Primary micromolecules						
	(4)	Secondary micromolecules						
22.	Stud	ly the following statements a	nd choose	the correct combination :				
	A.			turator guides the pollen tube entry				
		into the ovule.						
	В.	Obturator originates from p	lacenta, fo	orms a hood like structure over the				
		nucellus.						
	C.	Bisporic – 8 nucleate embr	ryo sac is	seen in polygonum type.				
	D.	The syngamy and triple fu	sion was	discovered by Straussberger.				
	(1)	A, B, C, D	(2)	A, B, C				
	(3)	A, B, D	(4)	А, В				
23.	Chalazogamy is seen in :							
	(1)	Mangifera species	(2)	Casuarina species				
	(3)	Cucurbita species	(4)	Pistacia species				
24.	Helobial type of endosperm is seen in :							
	(1)	Senecio species	(2)	Peperomia species				
	(3)	Zea mays	(4)	Aristolochia species				
25.	Match of the following:							
	A.	Mass Meristem	1.	Epidermis				
	В.	Plate Meristem	2.	Phellogen				
106	C.	Intercalary Meristem	3.	Embryo				
	D.	Lateral Meristem	4.	Gynophore of Arachis sp.				
	(1)	A-3, B-1, C-4, D-2						
	(2)	A-2, B-1, C-2, D-4						
	(3)	A-2, B-3, C-1, D-4						
	(4)	A-3, B-4, C-2, D-1						

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26.	Opposite decussate phyllotaxy is not seen in :						
	(1)	A chyranthus	(2)	Calotropis			
	(3)	Nerium sp.	(4)	Ocimum			
27.	"The	waiting meristematic zone"	is:				
	(1)	Meristem d'atlente	(2)	Promeristem receptaculariae			
	(3)	Meristem medullaire	(4)	Anneu inital			
28.	Ende	omycorrhiza of orchids are	lifferent fro	om ectomycorrhizae :			
	A.	In breaking down of ligni	n in forma	tion of decaying organic matter			
	В.	In colonization of roots of	higher pla	ants			
	C.	In production of spores					
	D.	In the formation of mantl	e				
	The correct answer is :						
	(1)	A, B, C, D	(2)	A, B, C			
	(3)	B, C, D	(4)	A, C, D			
29.	Polyploid nuclei are recorded in :						
	(1)	Endothecium	(2)	Tapetum			
	(3)	Epidermis	(4)	Middle layer			
30.	Cho	ose the correct statement :	(
	A.	Root apex assumes sub-ap	oical position	on due to the presence of root cap			
	B.	One or more number of i	nitial cells	are present in the root apex			
	C.	Root hairs are unicellular	and endo	genous			
	D.	Root apex possesses limit	ed apical r	meristem			
	(1)	A, B, C, D	(2)	A, B, C			
	(3)	A, B, D	(4)	B, C, D			
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31.	'Syne	ergid polyembryony' is s	een in :			
	(1)	Magnifera sp.		(2)	Orchis sp.	
	(3)	Allium odorum		(4)	Argemone maxicana	
32.	127010	teridophytes :		25 (5)		
	Α.	Prothallus is gametop	hytic sta	ge.		
	B.	Prothallus is unicellul		17. San	hytic.	
	C.				oup of cells is Leptosporangiate type	Gene
	D.	Heterospory is also se	and the second			
	Cho	ose the correct combinat		- 5	- 1	
	(1)	A, B, C, D		(2)	B, C	
	(3)	A, C		(4)	A, D	
33.	Clas	s Sphenopsida orders ar	е;			
	Λ.	Calamitales				
	B.	Cladoxylales				
	C.	Isoetales				
	D.	Sphenophyllales				
	The	correct combination is :				
	(1)	A, B		(2)	B, C	
	(3)	A, D		(4)	B, C, D	
34.	Cho	ose the correct pairs :				
	A.	Syndetochaelic		Ber	nnittitales	
	B.	Haplochaelic	_	Con	niferales	
	C.	Bisexual cones		Gn	etum species	
	D.	Saccate pollen	_	Pin	nus species	
	(1)	A, B, C		(2)	A, B, D	
	(3)	A, C, D		(4)	B, C, D	
35.	Can	ada balsam used as mount	ing medi	um in	permanent slide preparation is from	1
	(1)	Abies species		(2)	Agathis species	
	(3)	Picea species		(4)	Juniperus species	
36.	Stuc	ly the following pairs ar	nd choos	e corre	ect answer:	
	A.	Perigynium	_10		Anthoceros	
	В.	Dioecious			Polytrichum	
	C.	Monoecious	200		Marchantia	
	D.	Foot, seta, capsule			Targionia	
	(1)	A, B		(2)	В, С	
	(3)	B, D		(4)	B, C, D	
37.	The	largest order of the He	paticops	ida is	\$	
	(1)	Marchantiales		(2)	Calobryales	
	(3)	Sphacorocarpales		(4)	Jungermanniales	
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38.	Mat	ch the following with referen	ce to ultra	astructure of plasma membrane		
	A.	Bimolecular Model	1.	Singer and Nicloson		
	В.	Trilaminar Model	2.	Danielli and Dayson		
	C.	Micellar Model	3.	Robertson		
	D.	Fluid-Mosaic Model	4,	Hillier and Hoffman		
	(1)	A-2, B-4, C-3, D-1	10777			
	(2)	A-3, B-2, C-4, D-1				
	(3)					
	(4)	A-4, B-3, C-2, D-1				
39.		longest phase of the cell cyc	le is :			
	(1)	G1 phase	(2)	G2 phase		
	(3)	S phase	(4)	Telophase		
40.		phipathic' lipid molecules of o		. All the company of		
	(1)	Glycolipids	(2)	Sphingolipids		
	(3)	Phospholipids	(4)	Sterols		
41.	100000	ly the following statements a				
	A.	Cell cycle is limited to gro				
	В.	MPF induces the mitosis of				
	C.	P34cdc2 is a kinase		7, 444		
	D.	Cyclins regulates the kinas	e activity.	#		
	(1)	A, B, C, D	(2)	A, B, D		
	(3)	A, C, D	(4)	А, В		
42.		estrated lamellae are associat		7004 - 1700		
	(1)	Endoplasmic reticulum	(2)	Golgi apparatus		
	(3)	Chloroplast	(4)	Ribosomes		
43.	5 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	robodies' are :	0.00			
	(1)	Peroxisomes only				
	(2)	Glyoxysomes only				
	(3)	Both Peroxisomes and Gly	oxvsomes			
	(4)	Peroxisomes, Glyoxisomes		omes		
44.	The term 'Endoplasmic reticulum' is first coined by :					
	(1)	Watson	(2)	Claude and Fullam		
	(3)	Porter and Kallman	(4)	Porter and Machado		
45.	100000000000000000000000000000000000000	ch of the following:				
	A.	Andrographis	1.	Antiabortifacient		
	В.	Asparagus	2.	Antidiabetic		
	C.	Phyllanthus	3.	Hepatoprotective		
	D.	Gymnema	4.	Cures asthma		
	(1)	A-2, B-3, C-1, D-4				
	(2)	A-3, B-1, C-4, D-2				
	(3)	A-3, B-4, C-1, D-2				
	(4)	A-2, B-1, C-4, D-3				
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46.	Acco	rding to Vavilov, the main geo	graphical	centres for cultivated plants are:			
	(1)	Ten	(2)	Fourteen -			
0145	(3)	Eight	(4)	Eleven			
47.	'Hae	matoxylon' dye used in staining n	ucleus-ob	tained from the plant, which belongs			
	to:						
	(1)	Papilionaceae	(2)	Caesalpinaceae			
	(3)	Asteraceae	(4)	Mimosoideae			
48.	'Soya	bean' is a native of :					
	(1)	China	(2)	Brazil			
	(3)	Canada	(4)	USA			
49.	A me	edicinal plant rich in ascorbic ac	id, chebu	lic acid and ellagic acid are present			
	in:						
	(1)	Asparagus	(2)	Gymnema			
	(3)	Phyllanthus	(4)	Andrographis			
50.	'Sahy	adri moutains' are associated	with:				
	(1)	Eastern Ghats	(2)	Western Ghats			
	(3)	Hills of Madhya Pradesh	(4)	North Himalayan hills			
51.	The	number of biosphere reserves		are :			
	(1)	Twelve	(2)	Fourteen			
	(3)	Sixteen	(4)	Eighteen			
52.	Infor	mation about rare plant species		in Botanical gardens are written			
	in:	*		, Joseph gardens are written			
	(1)	Red book	(2)	Blue book			
	(3)	Green book	(4)	Black book			
53.	13 350 17 67			ted plants and 320 species of their			
	wild	relatives", According to :		rea plants and 520 species of men			
	(1)	ICAR	(2)	CSIR			
	(3)	BSI	(4)	NBPGR			
54.			and the second second	more than other post reproductive			
	and	reproductive group. The pyram	id chana	ie :			
	(1)	Bell shaped	(2)	Urn shaped			
	(3)	Triangular shaped		Spindle shaped			
55.		Index' of a population is :	(4)	Spindle shaped			
	(1)	The brith-death ratio					
	(3)	F F F F F F F F F F F F F F F F F F F					
	(4)	Clutch size of the population					
56.		nge the process of succession i		tiol and a			
3232	A.	Invasion	B.	Nudation			
	C.	Reaction	D.				
	E.	Competition	D.	Climax			
	(1)	A, C, B, D, E	(9)	DARCD			
	(3)	B, E, A, C, D	(2)	B, A, E, C, D			
			(4)	A, B, E, C, D			
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57.	Gross primary production is equal to :					
	(1)	Net Primary Production + Pho	otosynt	hesis		
	(2)	Net Primary Production - Res	piratio	n		
	(3)	Net Primary Production + Res	spiratio	on		
	(4)	Net Primary Production - Pho	otosyntl	hesis		
58.	'Inve	rted pyramid' is seen in the pyr	ramid	of:		
	(1)	Numbers of pond ecosystem				
	(2)	Numbers of grassland ecosyste	m			
	(3)	Biomass of forest ecosystem				
+1	(4)	Biomass of pond ecosystem				
59.	In T	'elangana state — 'Dry Savannal	h Fores	sts' present in the districts of		
	(1)	Nizamabad — Adilabad	(2)	Medak — Mahboob Nagar		
	(3)	MahaboobNagar — Khammam	(4)	Rangareddy — Medak		
60.	GWI	P is :				
	(1)	Global Warming Product	(2)	Global Warming Potential		
	(3)	Global Warming Procedure	(4)	Global Warming Process		
61.	Ozor	ne hole is formed in the :				
	(1)	Stratosphere	(2)	Troposphere		
	(3)	Ionosphere	(4)	Thermosphere		
62.	Mate	ch the following :				
	A.	Species restricted to a specifi	c	 Flagship species 		
		geographic region				
	В.	Species introduced from one	region	2. Threatened species		
		to another geographic region				
	C.	Species pron to extinction the	rough	Endemic species		
		anthropogenic activities				
	D.	A vulnerable species represen	t an	4. Exotic species		
	environmental cause also helps in					
		protection of ecosystem				
	(1)	A-4, B-3, C-2, D-1				
	(2)	A-4, B-2, C-1, D-3				
	(3)	A-3, B-2, C-1, D-4				
	(4)	A-3, B-4, C-2, D-1				
63.	Whi	ich of the following has least po	tential	on global warming:		
	(1)	Methane	(2)	Nitrous oxide		
	(3)	Carbon-dioxide	(4)	CFC-12		
64.	Km	value of enzyme in substrate co	oncentr	ration at :		
	10100	1	(0)	1 37		
	(1)	$\frac{1}{4}$ V _{max}		$\frac{1}{2}$ V _{max}		
	(3)	2 V _{max}	(4)	4 V _{max}		
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65.	Enz	ymes enhance the rate of	of reaction by :				
	(1) Forming reactant-product complex						
	(2)						
	(3)	Lowering the activation					
	(4)	Charging equilibrium					
66.	Stu			the correct combination:			
	A.			sed by Slater and Taylor			
	B.			ial an account of matric forces has			
		always negative value					
	C.	Water potential = Osi	notic potential	- Pressure Potential			
	D.	Osmotic potential is a	dso called solu	te potential			
	(1)	A, B, C, D	(2)	A, B, C			
	(3)	A, B, D	(4)	B, C, D			
67.		hotorespiration the catalas	e enzyme which	splits $2\mathrm{H}_2\mathrm{O}_2$ to $\mathrm{H}_2\mathrm{O}+\mathrm{O}_2$ is present			
	in :	Peroxisome	(9)	Mitochondria			
	(3)	Chloroplast	(2)				
68.		OP - ME type of C ₄ plan	(4)	Glyoxysomes			
00.	(1)	Saccharum	(2)	Amaranthus			
	(3)	Chloris	(4)	Panicum			
69.	55 10		1/1/201				
ob.	A.	Study the following statements and choose the correct combination: A. In HMP pathway the intermediate compounds are five carbon compounds.					
	В.	HMP nathway is also	celled as post	ose phosphate pathway,			
	C.			way is phosphogluconic acid.			
	D.			ect oxidation pathway.			
	(1)	A, B, C, D	(2)	A, B, C			
	(3)	B, C, D	(4)				
70.				A, C, D to disaccharide by the process :			
100	(1)	Glyoxylate cycle	(2)	HMP pathway			
	(3)	Gluconeogenesis	(4)	Krebs cycle			
71.		of the following is a sh					
	(1)	Tomato	(2)	Tobacco			
	(3)	Radish	(4)	Lily			
72.		hormone used in synchr					
11.00	(1)	Brassinosteroid	(2)	Zeatin			
	(3)	GA3	(4)	Ethylene			
73.	477.000	nmond-Lang' effect is due	The second secon				
	(1)	Abscisic acid	(2)	Ethylene			
	(3)	Cytokinin	(4)	Gibberllic acid			
74.		present cultivated wheat					
	(1)	Diploid Diploid	(2)	Tetraploid			
	(3)	Hexaploid	(4)	Polyploid			
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75.	Study	the following statements and	l choose t	the correct combination :		
	A.			DNA is present in stroma region		
	B.			monly called as Ct DNA/CP DNA		
		CP DNA is comparatively bi				
	D.	The plastid inheritance is u				
	(1)			A, B, D		
		A, B, C		A, B, C, D		
70	(3)	B, C, D rst protective coat used for	1000000	B [10] [10] [10] [10] [10] [10] [10] [10]		
76.				Sodium alginate		
	(1)	Carragenin		Gelrite TM		
	(3)	Polyoxyethylene	2.70			
77.		the following statements and				
	A.			g somatic hybridization and helps		
		in formation of transgenic p				
	В.			tant hybrids can be created.		
	C.	Somatic hybrids are balance				
	D.	Somatic hybridization betwee amphidiploid.	n two dipl	loid results in the formation of an		
	(1)	A, B, C, D	(2)	A, B, C		
	(3)	A, C, D	(4)	A, B, D		
78.	The scientist, who produced a whole plant from a single cell under vitro					
	condit		(0)	n. 1		
	(1)	White	(2)	Steward		
	(3)	Habelandf		Nobecourt		
79.	'The exact copy of the parental cell' arising from the tissue culture from plant					
	is kno	own as :		56784 Will		
	(1)	Hybrid '	(2)	Cybrid		
	(3)	Explant	(4)	Clone		
80.	Balbia	ini rings are seen in :				
	(1)	Polytene chromosome	(2)	Lampbrush chromosome		
	(3)	B-chromosome	(4)	Homologous chromosome		
81.	Study	the following statements an	d choose	the correct combination:		
	A.	B-chromosomes are extra chr 'A' chromosomes.	omosomes	present in some plants other than		
	B.	A-chromosomes are generall	y smaller	than B-chromosomes.		
	C.			somes and are autosomes of an		
	D.	~	to help in	the formation of nucleolus.		
	(1)	A, B, C, D	(2)			
	(3)	A, B, D		A, C, D		
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82.	Cho	Choose the correct pairs :						
	A.	Transposable elements	-	Certain DNA sequences which move				
		The second secon		from one place to other				
	B.	Transposan term	-	Coined by Hedges and Jacob				
	C.	Insertion sequences	_	Can insert at specific sites in				
		CALCO SEA CONTROL CON		bacterial chromosomes				
	D.	Retro-elements	_	Nucleic acid sequences propagated				
				by reverse transcription				
	(1)	A, B, C, D	(2)	A, B, C				
	(3)	A, B, D	(4)	B, C, D				
83.		'Raphanobrassica' is a classical example of :						
	(1)	Autopolyploid	(2)					
	(3)	Hexaploid	(4)	Amphidiploid				
84.		'Albino leaves' in plants is :						
	(1)	Morphological mutation	(2)	Resistant mutation				
	(3)	Biochemical mutation	(4)	Lethal mutation				
85.	0.000							
00.	Study the following statements and choose the correct combination: A. Operon model was proposed by Jacob and Monad.							
	B.	그 그는 그들은 마스트 그를 가는 얼마나 되었다. 그를 가는 얼마나 없는데 사람들이 되었다면 하게 되었다면 그렇게 되었다면 그렇게 되었다면 그렇게 되었다면 그렇다.						
		* * * * * * * * * * * * * * * * * * *						
		C. Operator gene is controlled by number of structural genes.						
	D.	D. Lac-operon is an example for non-inducible system and regulations at						
0.0	743	transcription level.	(0)	* P 0				
	(1)	A, B, C, D	(2)	A, B, C				
	(3)	A, C, D	(4)	A, B, D				
86.		Bacterial genetic recombination discovered by Griffith was in :						
	(1)	Salmonella	(2)	Streptococcus				
o.er	(3)	E.coli	(4)	Xanthomonas				
87.		To establish 'DNA is the genetic material', Hershy and Chase utilised the						
		oactive molecules of :	WENT.	MARINE TO COMPANY OF THE COMPANY				
	(1)	Sulphur	(2)	Phosphorus				
02820	(3)	Carbon	(4)	Nitrogen				
88.		Transgenic plant with edible vaccine for hepatitis-B is :						
	(1)	Potato	(2)	Tomato				
	(3)	Cowpea	(4)	Spinach				
89.	Study the following statements and choose the correct combination:							
	A. The legal characterization and treatment of trade related biotechnological							
	processes and products is popularly described as 'Intellectual property'.							
	B.			nd includes patents, trade secrets,				
		copyrights and trade marks.						
	C,							
	units and funding to facilitate the production.							
	D. PBR (Plant Breeders Right) is an example of intellectual property.							
	(1)	A, B, C, D	(2)	A, B, C				
	(3)	B, C, D	(4)	A, C, D				
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90.	According to Indian Patent Act, 1970, the duration of the patent in India is:					
	(1) Five years from the date of filing applications					
	(2) Seven years from the date of grant of patent					
	(3) Five years from the date of grant of patent					
	(4) Ten years from the date of filing application					
91.	In PCR technique the thermostable enzyme is :					
	(1)	P flu DNA polymerase	(2)	Taq DNA polymerase		
	(3)	RNA polymerase	(4)	Thiokinase		
92.	The technique used to detect proteins of particular specificity is known as :					
	(1)	Southern blotting	(2)	Northern blotting		
	(3)	Western blotting	. (4)	Eastern blotting		
93.	What are the component-II of the enzyme dinitrogenase in nitrogen fixation :					
	(1)	The smaller subunit DN	(2)			
	(3)	DNR has Fe protein	(4)	DN has Mo protein		
94.	The bacterial genes helping in formation of nodules are called :					
	(1)	Nodulation genes	(2)	Nodulin genes		
	(3)	Nif genes	(4)	Hup genes		
95.	Arrange the following vegetational zones in their increasing altitude :					
	A.	Polar zone	В.	Tropical zone		
	C.	Temperate zone	D.	Sub-tropical zone		
	(1)	A, B, D, C	(2)	B, D, C, A		
	(3)	B, C, D, A	(4)	A, C, B, D		
96.	The plants do not have perennating organs and pass the unfavourable period					
	in the form of seeds are known as :					
	(1)	Phanerophytes	(2)	Chamephytes		
	(3)	Hemicryptophytes	(4)	Therophytes		
97.	Without fertilization the embryos are formed from synergids in :					
	(1)	Allium	(2)	Ulmus		
	(3)	Argemone	(4)	Trillium		
98.	The sharpline of demarcation between two biomes is called as :					
	(1)	Niche	(2)	Ecotone		
	(3)	Ecad	(4)	Ecotype		
99.	The phytochrome components exhibit dark reversion of P_{fr} to P_r in :					
	(1) Monocotyledons only					
	(2) Dicotyledons only					
	(3) Both Moncotyledons and Dicotyledons					
	(4) In all flowering plants					
100.	Somatic embryogenesis in culture was demonstrated for the first time in :					
1150150	(1)	Carrot	(2)	Beetroot		
	(3)	Potato	(4)	Pea		
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Space for Rough Work

Space for Rough Work

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