1.	•	-	ımon antib	piotics like penicillin because of						
	A)	,								
	B)	Lack of cell wall								
	C)	Small genome size								
	D)	Active repairing mechani	sm							
2.	The c	compound employed as a fu	sogen for	plant protoplast fusion techniques?						
	A)	Sodium chloride	B)	Potassium chloride						
	C)	Polyethylene glycol	D)	Trehalose						
3.		rse transcriptases are encod malian cells which shows re	•	roviruses. One of the enzymes from the						
	A)	Telomerase	B)	Ribozyme						
	C)	Caspase	D)	Ribonuclease						
	<i>C)</i>	Caspase	D)	Ribonacicase						
4.	The f A) B) C) D)	Dominance, family select Selection, mutation, migr Forward mutation, gene of	tion, fitnes tation, inbe	can be changed by forces like ss & diversification reeding & random genetic drift a, neutral evolution & recombination ne mutation & out breeding						
5.		methodology for defining gexample 50-100kb) is	gene arran	gement in very long stretches of DNA						
	À)	Nick translation	B)	Chromosome walking						
	Ć)	AFLP	Ď)	Southern blotting						
6.	Norman Borlaug, the Father of Green Revolution, revolutionized agriculture by developing new varieties of A) Wheat B) Rice									
	,	Maize	Б) D)	Corn						
	C)	Maize	D)	Com						
7.	Theo	ry of Continental Drift was	proposed	by						
	A)	Du Tolit	B)	Charles Darwin						
	C)	Alfred Wegener	D)	Weisman						
8.		population in which mortal rvivorship graph is	lity rate is	low until the end of life span, the mode						
	A)	Highly convex curve	B)	Highly Diagonal curve						
	C)	Concave curve	D)	Linear curve						

9.	The m	nechanism that b	oest des	scribes t	he oper	ning of s	stomata in pla	nts?		
	A) Influx of K+ into the guard cells followed by endosmosis, making the cells turgid									
B) K+ triggers the water pumps in the guard cell membrane that make turgid								te them		
	C)	Efflux of K+ f flaccid	from th	e guard	cells fo	llowed	by water, mal	king the	cells	
	D)	Loss of K+ fr of the guard co	_	ard cells	s create	s positi	ve pressure le	eading to	turgidity	
10.		many ATP mo			_	ivalents	are required	l to syr	nthesize a	
	A)	600	B)	400	ius?	C)	200	D)	300	
11.		onum type emb	ryo sac	is						
	A)	Monosporic			B)	Bispor				
	C)	Trisporic			D)	Tetras	poric			
12.		requency distrib or than the mean Negatively sko Symmetrical	but les			e, the di	stribution is c vely skewed			
13.	Which A)	n of the followin FORTRAN	ng comp B)	puter lai COBC		is used C)	for artificial in PROLOG	ntelligen D)	ce? C	
14.	Cell c	ycle check poin	ts form	a mech	anism t	o ensur	e			
	A)	Proper DNA r								
	B) C)	Proper chromo Proper comple				vall aval	0			
	D)	Proper termina			_	en cyci	C			
15.		n of the following			oscopy	is most	t useful for vi	ewing th	e internal	
	A)	ures of unstained Phase-contrast	-	mens?	B)	Bright	field			
	C)	Electron	•		D)	Confo				
16.		n of the following	_	-		_		ecise and	d accurate	
	A)	In situ hybridi			C	C	1			
	B)	DNA microar	•							
	C) D)	Promoter gene Reporter gene			_					
17	The	ore of distance	roculti-	na from	orm ore =	0¥/ 0#2 2	allad			
17.	A)	ore of diatoms Autospore	resulti	ig itom	syngan B)	ny are c Auxos				
	C)	Androspore			D)	Zygos	•			

18.		tious single stranded RNA i own as	n plants th	nat are not associated with any protein				
	A)	Viruses	B)	Viroids				
	C)	Priones	D)	Satellite viruses				
19.	Powe	dery lesions on the undersid	le of the c	offee leaves appear as orange yellow to				
		range in colour known as co						
	A)	Hemileia vastatrix	B)	Puccinia graminis				
	C)	Cronartium ribicola	D)	Uromyces phaseoli				
20.	Whic	ch of these spores are charac	teristic of	the black bread mold <i>Rhizopus</i> ?				
	A)	Basidospores	B)	Arthrospores				
	C)	Sporangiospores	D)	Ascospores				
21.	Litm	us, a dye used in laboratorie	s as an inc	dicator of acid-base, is obtained from				
	A)	Rocella	B)	Usnea				
	C)	Peltigera	D)	Everina				
22.		ophyte with Synangium, how	mosporou	s with eusporangite development is seen				
	A)	Psilotum	B)	Lycopodium				
	C)	Isoetes	D)	Marselia				
23.		al Sahni (1948) made ti oxylales from the village Ni		collection of fossilized pteridophyte				
	A)	Bihar	B)	Assam				
	C)	Utter Pradesh	D)	Kashmir				
24.	Who	among the following propo	sed a phyl	logenetic system of classification?				
	A)	Carl Linnaeus	B)	Bentham and Hooker				
	C)	John Hutchinson	D)	Charles Darwin				
25.	Plants with stellate hairs, mucilaginous, free lateral stipule, solitary flowers, fre							
	petals with contorted aestivation, monoadelphous stamen, ovules with axile							
	placentation is seen in the family							
	A)	Malvaceae	B)	Rutaceae				
	C)	Caryophyllacea	D)	Meliaceae				
26.	Pave	ment tissue, a unique region	occurs in	the ovule of the gymnosperm				
	A)	Gnetum	B)	Taxus				
	C)	Agathis	D)	Ephedra				
27.	Study	y of medical aspects of polle	en grains i	s known as				
	A)	Latropalynology	B)	Mellitopalynology				
	C)	Aeropalynology	D)	Copropalynology				

28.	_	of parenchyma cells, polygolar bundle is known as	onal or	r radially elongated, lying in between							
	A) C)	Cambium Medullary rays	B) D)	Bundle sheath Endodermis							
20	,		,								
29.	A)	gen staining of DNA is based of Free aldehyde group of pent		eaction of Schiffs reagent with							
	B)	Purines at N-7 position	ose sug	gai							
	C)	Pyrimidines at N-1 position	1								
	D)	Phosphate moiety of nucleon									
30.	Wing	ged bean is the common name of	of								
	A)	Psophocarpus tetragonolobi	us								
	B)	Viccia angularis									
	C)	Lens culinaris									
	D)	Cyamopsis tetragonoloba									
31.		chemistry of raphide crystal is									
	A)	Silica	B)	Calcium oxalate							
	C)	Calcium carbonate	D)	Ferric sulphate							
32.	In a competitive inhibition the $K_{\rm m}$ and $V_{\rm max}$ values of an enzyme										
		A) $K_{\rm m}$ and $V_{\rm max}$ values decrease									
		B) $K_{\rm m}$ value increases whereas $V_{\rm max}$ remains unchanged									
	C)	$K_{\rm m}$ and $V_{\rm max}$ values increase		I value deemages							
	D)	K _m value remains unchanged	i and v	v _{max} value decleases							
33.	The p	proteins in the native PAGE are	e separa								
	A)	Molecular mass	B)								
	C)	Net charges	D)	Based on isoelectric value							
34.	Which is the strongest reducing agent in photosynthetic electron transport cycle in										
		oplast?		D 4004							
	A)	P700*	B)	P680*							
	C)	Plastoquinone	D)	Plasocyanin							
35.	If a carotenoid-less mutant plant was grown under normal sunlight, then										
	occurs										
	A) B)	A) Increased chlorophyll oxidation and necrosis									
	C)	Increased chlorophyll synthe Increased photosynthetic rat									
	D)	Reduced photorespiration	C								
36.	Plasm	na membrane infoldings are ch	aracter	ristic of							
20.	A)	Transfer cells									
	B)	Transfusion tissue									
	C)	Mitochondria									
	D)	Companion cells									

37.		ntibody that binds to that produce allergi		omote th	ne release o	f histamine	e and other	21		
	A)	Ig M B)	Ig G	C)	Ig E	D)	Ig D			
38.		coccus radiodurans ure to massive radiat	_	nilic bact	erium is a	ible to sur	rvive eve	n		
	A)	Because it possess			as a shield	from the ra	adiation			
	B)	Because it has unic	•			•				
	C) D)	Because its cell was Because it has man			_					
20	ŕ	reserves of mymeneid	in the middle o	fthe abl	omomlost in	a havrambrit				
39.	-	resence of pyrenoid : e, makes it apparentl			-	a bryopnyt	e, a umqu	ıe		
	A)	e, makes it apparenti Funaria	y resemble wit B)	n aigae is Ricci						
	C)	Anthoceros	D)	Pore						
40.	Canac	<i>la balsam</i> is obtained	d from							
40.	A)	Podocarpus acutifo		Тахи	s baccata					
	C)	Agathis alba	D)		s balsamea					
41.	Taxon	omy, when it is str	engthened by	incorpor	ating data	from sema	ntides an	ıd		
	non	semantides is calle	-	me or por						
	A)	Numerical taxonon	ny B)	Cyto	taxonomy					
	C)	Chemotaxonomy	D)	•	a taxonomy	y				
42.	Botan	ical Survey of India	was established	d in 1890	under the	Ex-officio	Director			
	A)	Sir George King	B)	Sir A	rthur Jame	S				
	C)	J.D. Hooker	D)	Robe	ert Kyd					
43.	A foss	sil bryophyte identifi	ed from Rhaeti	ic, Upper	Triassic is					
	A)	Naiadita	B)		iochasma					
	C)	Leucobryum	D)	Plagi	iochila					
44.	Carnoy's fluid employed in cytological preparations consists of the following									
	A) Absolute alcohol + chloroform + glacial acetic acid									
	 B) Absolute alcohol + chloroform + distilled water C) Absolute alcohol + Formalin + glacial acetic acid 									
	C)		_			ı				
	D)	Absolute alcohol +	Chromic acid	+ glacial	acetic acid	l				
45.		mal functioning of		multiple	cambial rii	ng formation	on leads t	O		
		alous secondary grov		D 1						
	A)	Bignonia	B)	Bauh						
	C)	Boerhavia	D)	Еира	ıtorium					
46.		hemotherapeutic dru cancer is	ag derived fro	m <i>Taxus</i>	species w	hich is us	ed to tre	at		
	A)	Vincristin	B)	Vinh	lastin					
	C)	Paclitaxel	D)	V IIID Taxii						
	\sim ,	- 401114/101	ע)	i u/ill						

	MICILII	ng of DNA molecule leads to			
	A)	Decrease in optical density	B)	Increase in optical density	
	C)	No change in optical density	D)	Fluctuation in optical density	y
48.	When	the cell is Plasmolyzed, its			
	A)	DPD = OP	B)	DPD = 0	
	C)	DPD = OP + TP	D)	DPD = OP - TP	
49.		sitional zone between two eco	•		
	A)	Fragile ecosystem	B)	Biome	
	C)	Ecotone	D)	Buffer zone	
50.	Whose	e name is most closely associa	ted wit	n molecular evolution?	
	A)	Theodosius Dobzhansky	B)	Motoo Kimura	
	C)	Frederick Sanger	D)	Stephen Jay Gould	
	<i>C)</i>	Trederick Sunger	D)	Stephen suy Goula	
51.		ational Conservation for Natur	e and N	Natural Resources (IUCN) head	dquarters
	is loca		D .		
	A)	Morges, Switzerland	B)	Paris, France	
	C)	Vienna, Austria	D)	New York, USA	
52.	The G	Sangetic estuary of Sunderban	region i	s rich in	
٥2.	A)	Deciduous forests	B)	Evergreen forests	
	C)	Subtropical forests	D)	Mangrove vegetation	
53.	A gei	ne inherited from female is	not r	ecognized in either male o	r female
53.	offspr	ne inherited from female is ing, but the same gene is expr ted from male. This can be apt Repression Recombination	essed in	both male and female offspr	
	offspr inherit A) C)	ing, but the same gene is expr ted from male. This can be apt Repression Recombination	essed in ly explain B) D)	n both male and female offspr nined by Deletion	
53.54.	offspr inherit A) C)	ing, but the same gene is expr ted from male. This can be apt Repression Recombination	essed in ly explain B) D)	n both male and female offspr nined by Deletion Imprinting	
	offspr inherit A) C) Chron A)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis	essed in ly explain B) D) of B)	n both male and female offsprained by Deletion Imprinting DNA replication	
	offspr inherit A) C)	ing, but the same gene is expr ted from male. This can be apt Repression Recombination	essed in ly explain B) D)	n both male and female offspr nined by Deletion Imprinting	
	offspr inherit A) C) Chron A) C)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis	essed in ly explain B) D) of B)	n both male and female offsprained by Deletion Imprinting DNA replication	
54.	offspr inherit A) C) Chron A) C)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is	essed in ly explain B) D) of B) D)	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	
54.	offsprinherin A) C) Chron A) C) Satelli A)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide se	essed in ly explain B) D) of B) D)	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	
54.	offsprinherin A) C) Chron A) C) Satellin A) B)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide see Single gene regions	essed in ly explain B) D) of B) D)	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	
54.	offsprinherin A) C) Chron A) C) Satelli A)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide se	essed in ly explain B) D) of B) D)	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	
54. 55.	offsprinherin A) C) Chron A) C) Satelli A) B) C) D)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide see Single gene regions Ribosomal RNA genes Extra chromosomal DNA	essed in ly explain B) D) of B) D)	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	ing when
54.	offsprinherin A) C) Chron A) C) Satelli A) B) C) D)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide see Single gene regions Ribosomal RNA genes Extra chromosomal DNA	essed in ly explain B) D) of B) Equence	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	ing when
54. 55.	offsprinherin A) C) Chron A) C) Satelli A) B) C) D) The fa	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide see Single gene regions Ribosomal RNA genes Extra chromosomal DNA actor involved in the control of RNA polymerase II	essed in ly explain B) D) of B) equence	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis etic gene expression in eukary DNA methyltransferase	ing when
54. 55.	offsprinherin A) C) Chron A) C) Satelli A) B) C) D)	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide see Single gene regions Ribosomal RNA genes Extra chromosomal DNA	essed in ly explain B) D) of B) Equence	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis	ing when
54. 55.	offsprinherit A) C) Chron A) C) Satelli A) B) C) D) The fa	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide see Single gene regions Ribosomal RNA genes Extra chromosomal DNA actor involved in the control of RNA polymerase II	essed in ly explain B) D) of B) equence repigen B) D)	n both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis etic gene expression in eukary DNA methyltransferase TF II H	otes is?
54.55.56.	offsprinherit A) C) Chron A) C) Satelli A) B) C) D) The fa A) C) In a p	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis ite DNA is Short repetitive nucleotide set Single gene regions Ribosomal RNA genes Extra chromosomal DNA actor involved in the control of RNA polymerase II TF II D	essed in ly explain B) D) of B) Compared B) Compared B) D) minant	both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis etic gene expression in eukary DNA methyltransferase TF II H phenotype and the rest are	votes is?
54.55.56.	offsprinherin A) C) Chron A) C) Satelli A) B) C) D) The fa A) C) In a precess	ing, but the same gene is exprited from male. This can be apt Repression Recombination nosomal puffs are active sites of RNA synthesis Lipid synthesis Lipid synthesis ite DNA is Short repetitive nucleotide sees Single gene regions Ribosomal RNA genes Extra chromosomal DNA actor involved in the control of RNA polymerase II TF II D population, 75% are with do	essed in ly explain B) D) of B) cquence repigen B) D) minant on is in	both male and female offsprained by Deletion Imprinting DNA replication Polysaccharide synthesis etic gene expression in eukary DNA methyltransferase TF II H phenotype and the rest are equilibrium with respect to the	votes is?

58.	variety of phenotypic changes in	skin cel the mos	
59.	Which was the first eukaryotic ch A) Yeast chromosome III C) Arabidopsis chromosome	B)	Yeast chromosome XI
60.	Elite plants of a population are so bulked for sowing in the next seas A) Pure line selection C) Line breeding		Mass selection
61.	First genetically modified plant property. A) Transgenic tobacco C) Transgenic tomato	roduced i B) D)	in 1982 was Transgenic maize Transgenic cotton
62.	The mechanism that can cause a is A) Translocation C) Crossing over	gene to r B) D)	nove from one linkage group to another Inversion Duplication
63.	A mouse in which one particular generated <i>in vitro</i> is called A) Transgenic mouse C) Humouse	gene ha B) D)	ks been replaced by its inactivated form Knockout mouse Recombinant mouse
64.	The field of horticulture involved is A) Pomology C) Arboriculture	B) D)	growing and study of all fruits and nuts Olericulture Floriculture
65.	Which among the following tri Trichopus zeylanicus as per benef A) Kuruchiyar C) Kani		munity receives benefit of the use of g system? Kaatunaikan Mullukurumba
66.		ge from 1 terms of some, co al chromo al artific	osmid, P1 phage, plasmid osome, P1 phage, plasmid ial chromosome, plasmid

67.	The f		ng prote	ein synthesis is carried out by?					
	A)	Ribosomes	B)	aminoacyl t-RNA synthetase					
	C)	m-RNA	D)	t-RNA					
68.	Posit	ion effect is the result of							
	A)	Mutations	B)	Deletions					
	C)	Transversions	D)	Inversions					
69.	A tax	conomic system based only or	n the tra	its that reflect the order in time in which					
	branc	ches arose in a phylogenetic tr	ee is ca	lled					
	A)	Phylogeny							
	B)	Cladistic							
	C)	Classical evolutionary taxo	nomy						
	D)	Phenetics							
70.	A ke	ystone species is one that							
	A)	Exhibits higher likelihood	of extino	ction than a non keystone species					
	B)	Exerts a strong influence on an ecosystem							
	C)	Leads to extinction of other	r species	S					
	D)	Has a weak influence on ar	ecosys	tem					
71.	Plant know		areas w	here there is extreme scarcity of water is					
	A)	Lithosere	B)	Hydrosere					
	C)	Xerosere	Ď)	Psammosere					
72.	The tas the	- ·	ic autot	rophs present in an ecosystem is known					
	A)	Net primary productivity	B)	Standing crop					
	C)	Trophic efficiency	D)	Standing state					
73.	Parat	racheal parenchyma may be f	ound:						
		A) at the interface of spring and summer wood							
	B)								
	Ć)	around xylem vessels							
	Ď)	in phloem							
74.	Endo	sperm haustoria with vermifo	rm appe	endage is reported in					
	A)	Grevillea	B)	Coconut					
	C)	Adoxa	D)	Hyoscymus					
75.				midrib, spathaceous bracts, corolla two					
	lipped	l, stamens 5, ovary inferior wi	th many	vovules on axile placentation – these are					
	seen i	n							
	A)	Arecaceae	B)	Aroideae					
	C)	Poaceae	D)	Musaceae					
76.	Prok	aryotes contain one RNA poly	merase	. How many are there in eukaryotes?					
	Δ)	1 R) 3		C) 2 $D)$ A					

77.	The gymnosperm wood which is densely packed with reduced pith and cortex is known as						
	A)	Pycnoxylic	B)	Monoxylic			
	C)	Hard wood	D)	Light wood			
78.		ot of sugar cane is caused by					
	A)	Colletotrichum falcatum	B)	Xanthomonas citri			
	C)	Alternaria solani	D)	Fusarium oxysporum			
79.	_	enetic effect seen in an isolate es is known as	d popul	lation formed by a few individuals of a			
	A)	Bottleneck effect	B)	Founder effect			
	C)	Assortative effect	D)	Random mating			
80.	Which	n fungal group shows Clamp F	ormatic	on?			
	A)	Basidomycota	B)	Ascomycota			
	C)	Chytridiomycota	D)	Deuteromycota			
81.	haploi			ches between diploid sporophyte and shable morphologically i.e. isomorphic			
	A)	Volvox	B)	Zygnema			
	C)	Ulothrix	D)	Cladophora			
82.		inding of the antigen to the a n with Light chain of antibody Light & heavy chain of antib Light & heavy chain and wit Heavy chain of antibody	ody	takes place through the interaction of agment of the antibody			
83.	Student's t-test was developed A) As an easy statistical test for students B) By the students of Oxford University C) By W.S.Gosset D) By R.A.Fisher						
84.	 Teichoic acids are polysaccharides of glycerol phosphate typically found in A) Cell walls of gram positive bacteria B) Cell walls of gram negative bacteria C) Cell membrane of gram positive bacteria D) Cell membrane of gram negative bacteria 						
85.		e three types of ecological py e of the functional nature of co Pyramid of number Pyramid of energy		which pyramid gives the best overall ties? Pyramid of mass Both A and C			

86.	The hof the following is incorrect? Root apical meristem is the meristem of synthesis of cytokinin Methionine is the precursor of Ethylene Tryptophan is the precursor of IAA Thidiazuron is the most abundant naturally occurring cytokinin of higher plants						
87.	Agar is obtained from the algae A) Gelidium B) Gracillaria C) Both A & B D) Polysiphonia						
88.	The most common type of chromosome rearrangement involving acrocentric chromosomes of humans is A) Robertsonian translocation B) Inversion C) Duplication D) Deletion						
89.	n amphivasal vascular bundles A) Peripherally arranged xylem elements enclose a mass of phloem B) Peripherally arranged phloem elements enclose a mass of xylem C) Xylem and phloem are arranged side by side C) Xylem is seen on either side of the phloem						
90.	A Pteridophyte member with ridged stem, consists of alternating vallecular an earinal canal with V shaped poorly developed xylem A) Selaginella B) Equisetum C) Microsorium D) Marsilea						
91.	The Gymnosperm known as living fossil and represented worldwide distribution Jurassic is A) Ginkgo B) Ephedra C) Williamsonia D) Lyginopteris						
92.	The specimen collected from the same locality from where the holotype was briginally collected and is the contingent from the same population is known as A) Tototype B) Neotype C) Epitype D) Isotype						
93.	The family characterized by herbaceous plants, swollen nodes, dichasial cymomomplete, actinomorphic, hypogynous flower, obdiplostemonous condition ovules on free central placentation. A) Caryophyllaceae B) Ranunculaceae C) Cruciferae D) Rutaceae						
94.	f a diploid cell contains six chromosomes, how many possible random arrangements of homologous could occur during Metaphase- I A) 4 B) 8 C) 6 D) 64						
95.	A plant of genotype AB/ab is test crossed to ab/ab. If the two loci are 10 map unit part, what proportion of the progeny will be AB/ab? A) 5% B) 45% C) 10% D) 20%						

- 96. The genome of a typical bacterium contains about 5×10^6 base pairs and can be replicated in about 41 minutes. The human genome is 600X larger (3×10^9 base pairs) and at the rate of a bacterium would require 300 hours (~12 days) to be replicated; yet the entire human genome can be replicated within a few hours. How is this possible?
 - A) Eukaryotic DNA is simpler to replicate than prokaryotic DNA
 - B) Human DNA polymerases works much faster than that of prokaryotes
 - C) The nucleosomes of eukaryotic DNA allow for faster DNA replication
 - D) Human DNA contains more origins of replication than prokaryotic DNA
- 97. Choose the mismatch

A. DNase I	1.Cleaves only ds DNA
B. Maxam-Gilbert method	2.Chemical modification of bases
C. Dideoxy terminator	3. Sanger method
D. Biotin	4. Water soluble vitamin

98.	The bacterial	enzyme	that	changes	positively	supercoiled	DNA	into	negatively
	supercoiled D	NA is							

- A) DNA helicase
- B) DNA gyrase
- C) Single stranded binding protein
- D) Polymerase

0.1

99.	In sheep, dominant allele B produces white wool and its recessive allele b
	produces black wool. In a total of 900 sheep, 891 are white and 9 are black
	Estimate the frequency of the B allele

- 100. A bag contains 10 black and 20 white balls and a ball is drawn in random. What is the possibility of drawing a black ball?
 - A) 0.33

A)

B) 0.22

0.9

B)

C) 0.55

0.3

C)

D) 0.88

0.7

D)

101. Rosalind Franklin's pictures of DNA double helix were taken using the technique known as

A) Diffraction

- B) X-ray crystallography
- C) Fluorescence
- D) Transmission electron microscopy

102. An analysis of chromosomal DNA by Southern blot technique, involves the following steps

1. Autoradiography 2. Blotting 3. Cleavage 4. Electrophoresis 5. Hybridization Which of the following sequence of steps best illustrates this technique?

A) 1,2,3,4,5

B) 1,3,2,4,5

C) 3,5,2,4,1

D) 3,4,2,5,1

103.	Axeni	c culture is best defined as				
	A)	Cell culture	B)	Organ culture		
	C)	Cell culture of microbes	D)	Cell culture free from other microbes		
104.	Binomial of a plant with no accompanying description is known as					
	A)	Tautonym	B)	Nomen nudum		
	C)	Late homonym	D)	Later isonym		
105.	Adver A) B) C) D)	entive polyembryony is due to Cleavage of proembryo Embryo from cells other than egg cell Splitting of zygote Embryos from nucellus				
106.	Henna dye is obtained from					
	A)	Lawsonia inermis	B)	Lagerstroemia speciosa		
	C)	Lythrum baeticum	D)	Indigofera tinctoria		
107.	Jeffrey A) B) C) D)	ys maceration technique comp Chromic acid + nitric acid Potassium chlorate Potassium chlorate + chron Sodium sulphite + chlorine	nic acid	e following chemical combination		
108.		B) Heterozygous pericentric inversion C) Homozygous inversions				
109.	Fumaria type, Cucurbita type, Lathyrus type and Anemarrhena type are categories of					
	A)	Root stem transition	B)	Nodal anatomy		
	C)	Stelar types	D)	Embryo sac types		
110.	Ribose and Deoxyribose differ in the structure around a single carbon namely					
	A)	C_1 B) C_2		C) C_3 D) C_5		
111.	dinitro	•	ictase.	on namely Nitrogenase consists of These differ from each other in the Molybdenum Manganese		
112.	Name the compound with greatest standard free energy					
	A)	ATP	B)	Phosphocreatine		
	C)	Phosphoenol pyruvate	D)	cAMP		

113.	One of	of the kinase enzymes in Giyc	olytic pa	•		
	A)	Hexokinase	B)	Phosphofructokinase		
	C)	Pyruvate kinase	D)	Phosphoglycerate kinase		
114.	The aminoacid that does not participate in transamination					
	A)	Lysine	B)	Glutamate		
	C)	Alanine	D)	Tryptophan		
115.	The event leading to post translational modification					
	A)	Hydroxylation	B)	Glycosylation		
	C)	Phosphorylation	D)	All of these		
116.	Ribosomes are attached to endoplasmic reticulum so as to form rough endoplasmic reticulum mediated by					
	A)	Ribophorin I	B)	Ribophorin II		
	C)	Both (A) and (B)	D)	Magnesium linked protein		
117.	The largest cell organelle is					
	A)	Chloroplast	B)	Mitochondrion		
	C)	Peroxisome	D)	Golgi cisternae		
118.	In Ectocarpus, gametangia are sexual bodies which are					
	A)	Plurilocular	B)	Unilocular		
	C)	Monosporangia	D)	Nucule		
119.	What characteristic domain is found in eukaryotic proteins that enable them to enter the endoplasmic reticulum?					
	A)	Stop transfer domain	B)	Signal sequence		
	C)	Signal sequence receptor	D)	Signal recognition protein		
120.	Cryptochromes are pigments involved in the circadian rhythms of plants, sensing of magnetic fields in a number of species and are sensitive to					
	A)	Red light	B)	Blue light		
	C)	Far red light	D)	Both blue & red light		
	,		,			