A

18203 120 MINUTES

1.	Capit	rulum consist of			
	A)	Ray florets only	B)	Disc florets only	
	C)	Ray florets and disc florets	D)	None of the above	
2.	Mito	chondria are absent in			
	A)	Green algae	B)	Brown algae	
	C)	Red algae	D)	Blue green algae	
3.	Whic	h one is an essential mineral wh	nich is not a co	onstituent of any enz	yme?
	A)	Zn B) Mn	C)	Si D)	Mg
4.	Naple	e's clamp is a device that enable	s the specime	ns to be accurately o	riented
	A)	Microscope	B)	Sledge microtome	
	C)	Atomic emission spectroscop	y D)	Spectrophotometre	
5.		nich of the following types of ov ht line	rules do the m	nicropyle and the fur	icle come to lie in one
	A)	Orthotropous	B)	Anatropous	
	C)	Hemi Anatropous	D)	Campylotropous	
6.	Cytol	kinins are			
	A)	Adenine derivatives	B)	Guanine derivative	
	C)	Cytidine derivatives	D)	Thymidine derivat	ives
7.	Who	among the following is not a Re	ediscoverer of	`Mendelism	
	A)	Karl Correns	B)	Tschemark	
	C)	Hugo Devries	D)	T. H. Morgan	
8.	In ge	ological time scale which time p	eriods is knov	wn as the age of gym	nosperms?
	A)	Silurian and Devonian	B)	Devonian and carb	oniferous
	C)	Triassic and Jurassic	D)	Jurassic and cretac	eous
9.	Carra	ageenin is obtained from the cell	walls of alga	e	
	A)	Ascophyllum	B)	Chondrus	
	C)	Fucus	D)	Codium	
10.	Whic	h type of life cycle is shown by	diatoms?		
	A)	Diplontic type	B)	Haplontic type	
	C)	Diplobiontic type	D)	Haplobiontic type	
11.	Litm	us is a dye obtained which licher	n?		
	A)	Lecanora	B)	Cladonia	
	C)	Peltigera	D)	Roccella	

12.	Infol	dings produced by cytoplasm	nic memb	ranes s	een in bacteria are called
	A)	Fimbriae		B)	Pili
	C)	Mesosomes		D)	Flagellin
13.	Whic	h among the following is no	t a prophy	ylactic	method?
	A)	Protection		B)	Eradication
	C)	Introduction		D)	Exclusion
14.	The f	irst virus demonstrated to ca	ause cance	er is	
	A)	Rous sarcoma virus	B)	Mou	se mammary tube virus
	C)	Feline Leukemia virus	D)	Avia	n Leukosis virus
15.	Labe	llum in Orchidaceae comes	to anterio	or side	by the twisting of the ovary through 180° .
	This 1	process is called			
	A)	Adnation		B)	Articulation
	C)	Resupination		D)	Attenuation
16.	Whic	h of the following region ha	s maximu	ım dive	rsity?
	A)	Mangrooves		B)	Temperate rainforest
	C)	Taiga		D)	Coral reefs
17.	Bioin	formatics tool CLUSTAL is			
	A)	Program that compares nu		-	•
	B)	1 1 2		-	grams for drawing evolutionary trees.
	C)				multiple sequence alignment.
	D)	Free open source softwar protein motif identificatio	_	id data	base searching with sequence patterns and
		•			
18.		h of the following is consider	ered as a r		
	A)	Electrostatic interactions		B)	Hydrogen bonds
	C)	Van der waals interaction	S	D)	All of the above
19.		niques that can be used to el	ucidate in		
	A)	X-ray crystallography		B)	NMR spectroscopy
	C)	SDS-PAGE		D)	A and B
20.		h among the following is no	-		
	A)	Archaeopteryx	B)	-	docarpon
	C)	Lepidodendron	D)	Rhyr	nia
21.	-	se is a			
	A)	Type Il topoisomerase fou		-	
	B)	Type II topoisomerase fou			
	C)	Type 1 A topoisomerase p			
	D)	Type 1 B topoisomerase p	resent in p	orokary	rotes

22.	_	resence of which structural arranger binding regulatory protein? ά helix Triple helix	B) D)	n a protein strongly suggests that it is β bend Zinc finger
23.			_	eaction and reactants of Calvin cycle?
	A)	NADP ⁺ and CO ₂	B)	NADPH and ATP
	C)	NADP ⁺ , ATP and CO ₂	D)	NADPH and O ₂
24.	Identi	fy the incorrect pair if any		
	A)	Nitrogen fixers in soil- Azotobacter		
	B)	Symbiotic nitrogen fixers- Rhizobiu	m	
	C)	Ammonifying bacteria- Escherichia	coli	
	D)	Nitrogen fixers in water- <i>Nostoc</i>		
25.	Grafti	ng is not successful in monocots com	pared to	dicots due to
	A)	Absence of cambium for secondary	_	
	B)	Vascular bundle seen in a scattered	manner	
	C)	Presence of cork cambium		
	D)	Xylem vessels arranged in an end to	end ma	anner
26.	Which	n of the following dimer formation is	most co	mmon?
	A	Cytidine dimer	B)	Thymine dimer
	C)	Both A and B	D)	None of the above
27.	In gyn	nnosperms the endosperm is		
	A)	Triploid	B)	Haploid
	C)	Polyploid	D)	Diploid
28.	Gynol	pasic style is the characteristic feature	of whice	ch of the following family?
	A)	Lamiaceae	B)	Solanaceae
	C)	Asteraceae	D)	Ranunculaceae
29.	Which	n of the following is a bacterial transcr	ription i	inhibitor?
	A)	Aphidicolin	B)	Camptothecin
	C)	Rifamycin	D)	Ciproflaxacin
30.	Which	n enzyme in gluconeogenesis is seen i	n both r	nitochondria and cytosole?
	A)	PEP carboxy kinase	B)	Pyruvate carboxylase
	C)	Pyruvate kinase	D)	Malate dehydogenase
31.	First s	successful gene therapy was done for	which o	f the following disorder?
	A)	Turner syndrome	B)	Hemophelia
	C)	SCID	Ď)	Jacobson syndrome
	1			•

<i>3</i> 2.	Only	one membrane bound enzyme in To	CA cycle?	
	A)	Succinate dehydrogenase	B)	Succinyl CoA synthatase
	C)	Malate dehydrogenase	D)	Citrate synthase
33.	Whic	ch of the following is called green m	ould?	
	A)	Aspergillus	B)	Rhizopus
	C)	Pencillium	D)	Mucor
34.		ecular canals and Carinal canals are dophyte?	the charac	cteristic features of which of the following
	A)	Equisetum	B)	Ophioglossum
	C)	Psilotum	Ď)	Selaginella
35.	Plant	growth hormone auxin is synthesiz	ed from w	which of the following amino acid?
	A)	Tryptophan	B)	Proline
	C)	Histidine	D)	Arginine
36.	Whic	ch of the following is a basic dye?		
	A)	Congored	B)	Crystal violet
	Ć)	Eosin	Ď)	Nigrosin
37.	Ac/D	s elements in Maize are examples o	of which tr	ansposable elements?
	A)	Retro transposones		•
	B)	Short Interspersed Nuclear Eleme	ent (SINE)	
	C)	Long Interspersed Nuclear Eleme	` '	
	D)	Composite transposons		
38.	Siliq	ua is the characteristic fruit of which	n of the fol	llowing family?
	A)	Fabaceae	B)	Brassicaceae
	C)	Caryophyllaceae	D)	Lamiaceae
39.	Whic	ch one of the following is an imino a	acid?	
	A)	Pepsine	B)	Proline
	C)	Cystein	D)	Histidine
40.	Auxo	ospores are specialized spores produ	ced at the	key stages in the life cycle of:
	A)	Diatoms B) Chlorella	C)	Nitella D) Ulothrix
41.	Whic	ch one of the following is NOT a sec	cond mess	enger in cell signaling?
	A)	cAMP B) Ca^{2+}	C)	Cyclin D D) IP_3
42.	-	ies with wide geographical rang lations are known as	ges of dis	stribution, that develop locally adapted
	A)	Ecological species	B)	Ecotypes
	C)	Ecophenes	D)	Sub species
		-	•	-

43.	The antisense gene involved in the produc										
	A)	Polyg	galactur	onase	_	B)	Lactamase				
	C)	Aden	osine de	eamina	se	D)	Glutathion t	ransfera	ise		
44.	The 1	reserve 1	food ma	terial i	n Bacillarioph	yceae (E	Diatoms) is				
	A)	Lami	narin			B)	Chrysolamir	narin			
	C)	Florio	dian sta	rch		D)	Starch				
45.	Whic	ch of the	follow	ing enz	yme is respon	sible for	the photoreact	ivation	of DNA?		
	A)		ligase			B)	Photoreduct	ase			
	C)	Phot	Photooxidase				Photolyase				
46.	Whic	ch pollut	ant will	cause	black foot dis	ease?					
	A)	As		B)	Zn	C)	Pb	D)	Hg		
47.	The s	scaly me	embrane	ous pe	rianth of gran	ninae is					
	A)	Radio	ele	B)	Spathe	C)	Panicle	D)	lodicule		
48.	Whic	ch amon	g the fo	llowing	g is a xerophy	tic bryop	hyte?				
	A)	Sphas		B)	Funaria	C)	Porella	D)	Riccia		
49.	A syı	nthetic f	orm of	opium	was develope	d by Ger	many during w	orld wa	ar -2 is known as		
	A)	Predr		B)	Cortisone	(C)	Methadone	D)	Polyheroin		
50.	Parac	cytic sto	mata is	the cha	racteristic fea	iture of w	which family?				
	A)	Rubia	aceae			B)	Ranunculace	eae			
	C)	Cype	raceae			D)	Malvaceae				
51.	Matc	h the fo	llowing	:							
		a.	Aracl	his hype	ogea	1	Nutmeg				
		b.	Myris	sticafra	grans	2.	Henna				
		c.	Laws	oniaine	ermis	3.	White damn	nar			
		d.	Vater	riaindic	а	4.	Ground nut				
	A)	a-1, b	-4, c-2,	d-3		B)	a-2, b-4, c-1	1, d-3			
	C)	a-4, b	o-1, c-2,	d-3		D)	a-3, b-4, c-2	, d-1			
52.	The	evidenc	e of I	ONA a	as genetic m	naterial v	was provided	based	on the transduction		
	expe	riments	on bact	eriopha	ges. The scien	ntists ass	ociated with the	is are			
	A)	Hersh	ney and	Chase		B)	Avery et al				
	C)	Griffi	ith			D)	Tatum				
53.	When	re is the	headqu	arters o	of IUCN locat	ed?					
	A)		York			B)	Switzerland				
	C)	Wash	ington			D)	Paris				

54.	Flora I	Lapponica is written by				
	A)	Carolus Linnaeus	B)	A.L.de Jussieu	l	
	C)	A.P.de Candolle	D)	Benthem and I	Hooker	
<i></i>	T1	4 1 4 C1 4 C1 DNA 1				
55.		talytic part of bacterial RNA polymer			D)	
	A)	α Β) β	C)	σ	D)	ω
56.		e substitutional mutation, where muta	ation in	a codon leads	s to the	production of stop
	A)	Neutral mutation	B)	Silent mutation	n	
	C)	Non sense mutation	D)	Reverse mutat	ion	
57.	Oligor	mycin is an inhibitor of which of the fo	allowin	σ component in	electro	on transport chain?
57.	A)	Complex 1	B)	Complex 4	Ciccuic	in transport chair.
	C)	ATP synthase	D)	Complex 4 Complex 2		
	C)	ATT synthase	D)	Complex 2		
58.	Which	of the following is a C ₃ plant?				
	A)	Maize	B)	Sugarcane		
	C)	Amaranthus	D)	Rice		
59.	Finger is	like projections in synergids used to	attract	male gametes t	owards	the egg cell to fuse
	A)	Filiform apparatus	B)	Germtube		
	C)	Mesosomes	D)	Fimbria		
60	Which	aftha fallowing names out the last ato	~~ ~ f ~		tion i	in alanta
60.		of the following represent the last sta	-			in plants
	A)	Microspore tetrad	B)	Sporemother c		
	C)	Zygote	D)	Archesporium		
61.		Epollutant accumulating plant to remonent the harvestable plant part is called	ve met	als or organics	from se	oil by concentrating
	A)	Rhizofilteration	B)	Phytodegradat	ion	
	C)	Phytoextraction	D)	Bioleaching		
62.	a and l	3 tubulins are the monomers of which	of the	following cytos	skeletal	element?
02.		Microtubules	B)	Microfilament		Cicinent:
	A)	Intermediary filaments		Actin filament		
	C)	intermediary maments	D)	Actin mament	.S	
63.	Which	of the following is the fastest way fo	r meml	orane transport?		
	A)	Pump	B)	Antiporter		
	C)	Ion channel	D)	Symporter		
64.	Late h	light of potato is caused by which of t	he follo	owing nathogen	?	
J 1.	A)	Phytophthora infestans	B)	Colletotrichun		ım
	C)	Xanthomonasorvzae	D)	Pythium debar	•	
	\sim ,	ZIGITUTUTUTUGGG VZUC	<i>~</i>	I VIIIIIIII WOOMI	railuill	

65.	Cross	ing over occur	s in whi	ch stag	ge of me	iosis?				
	A)	Leptotene	B)	Pack	nytene	C)	Diakinesis	D)	Diplotene	
66.	Great	est producers o	of organ	ic mat	ter on ear	rth are				
	A)	Crop plants				B)	Forest			
	C)	Plants of the	land are	ea		D)	Phytoplankt	on of oc	eean	
67.	Photo	tropic and geo	tropic m	novem	ents are l	inked to	O			
	A)	Gibberellins				B)	Enzymes			
	C)	Auxin				D)	Cytokinin			
68.		duction of disaddition of	ulphide	bonds	of prote	ein mol	ecules during	SDS-PA	AGE is accomp	olished
	A)	Ammonium	perslpha	ate		B)	TEMED			
	C)	Bis acrylami				D)	2- Mercapto	ethanol		
69.	A par	t of DNA whic	h codes	for a	single po	lypeption	de chain is kno	wn as		
	A)	Mucon	B)	Reco		C)	Cistron	D)	Intron	
70.		omorphic, pe		ous, l	nypogyno	ous flo	owers with	monade	lphous stame	n are
	A)	Sterculiaceae	2			B)	Malvaceae			
	C)	Ranunculace	ae			D)	Rosaceae			
71.	Whic	h among the fo	llowing	is not	a measu	re of dis	spersion?			
	A)	Variance				B)	Range			
	C)	Median				D)	Standard dev	viation		
72.	The e	nzyme reverse	transcri	ptase	was disco	overed l	by			
	A)	Watson				B)	Kornberg			
	C)	Temin and B	altimore	e		D)	Kary B Mul	lis		
73.	Which	h among the fo Plasmid is pr	_			correct	?			
	B)	'F' factor is a	a type of	f conju	igate plas	smid				
	C)	Plasmids are	presen	t in so	me eukar	yotes				
	D)	Plasmid of u	nknown	functi	ion is cry	ptic pla	smid			
74.	1. In 1 2. Pho 3. Cy 4. Pro	the odd ones photoperiodism otoperiodism natokinins can su omotion of flow otoperiodism is	ot only postitute vering by	prepar the re y red l	es the pla quirementight coul	ant for f nt of lon ld be rev	lowering but in a photoperiod wersed by far ro	nitiates s in long ed radia	flowering. g day plants. tion.	
	A)	2 and 5 only	B)	1 an	d 4only	C)	3 and 5 only	D)	2 and 3 only	

75.	Which 1. 2. 3. 4.	The so called Lysosomes co	sually l resting onvert c	nave no charge nucleus is not cellular polyme	ge on their outer surface. ot really resting. ners to monomers. the cell take energy from food to make ATP.					
	A) C)	1, 2 and 3 are 2 and 3 are true	true	Chondria in the	B) D)	2 only is true 1, 2, 3, and 4	;			
76.	a. b. c.	the following: Succession or Succession or Succession or Succession or	n sand n salt m n water	arsh	1. 2. 3. 4. B)	Lithosere Psammosere Halosere Hydrosere a- 1, b-2, c-4	, d- 3			
	C)	a- 4, b-3, c- 2	, d-1		D)	a- 1, b-2, c-3	, d-4			
77.	Soft w A) C)	ood are Wood of gym Wood used fo			B) D)	Wood with few xylem Wood of monocots				
78.		double strand equal 1?	ed DN	A according t	o Char	gaff's rule wh	ich of	the following ratios		
	1.	A/G	2.	C/T	3.	C/G	4.	(A+G)/(C+T)		
	A)	1 & 2 only	B)	2 & 4 only	C)	1 & 4 only	D)	3 & 4 only		
79.	1. 2. 3. 4. 5.	growth of ster Pith and corte Sieve tubes ar and perforated Pericycle of re In monocot le	m and v m. ex do no re suited d cross oot pro- eaf meso	ascular cambiu of differentiate d for translocat walls. duces lateral ro ophyll cells are	im are lin monoion of foot.	ocot stem. Good because th	ey poss	onsible for secondary sess broader lumen and spongy tissue.		
	A) B)	1, 2, 3 and 4 a 2, 3, 4 and 5 a								
	C)	1, 2, 4 and 5 a	re corr	ect						
	D)	All the given	stateme	ents are correct						

80.		mber of mo Low ionic High ioni High ioni	perature (T _m olecules have c strength and c strength and c strength and c strength and	e dissociat d high DN d high DN d low DN	ed in A co	to sing neentroncentroncentra	le strands. ation ation ation					lf
81.	Match	a. Dab. Ric. Si	ring diseases amping off ust nut owny mildev	1. 2. 3.		Organis Ustila Pythic Plasm Puccir	go ım opara					
	A) C)	a-2, b-4, d a-1, b-4, d				B) D)	a-4, b-3, a-4, b-1,					
82.	Match	the follow a. Fami b. Orde c. Speci d. Genu e. Class	ly r ies is	2. 3. 4.	Pol Pol	ot ygala i ygalale ygalac ygala	es					
	A) C)		c-2, d-5, e-1 c-5, d-3, e-2			B) D)	a-1, b-4, a-4, b-3,					
83.	Which 1. 2. 3. 4.	Pure line Mutation mutants of Horizonta disease of Ideo type	tement/ states selection is a breeding in of desirable to al resistance r pest. e is a biolo le manner wa	also called volves ex raits. is used to	as si posir deno del v	ngle plang seed the the which	ant selection and selection cherical resistance is expected.	nicals conve	yed by	y a sing	le gene to	a
	A)	4 only	B)	1 and 4or	ıly	C)	3 only]	D)	1, 2 an	d 3 only	
84.	Which A) B) C)	Almost all The restr protein. A configu	lowing stater ll the peptide iction of Φ arration that hearters of poss	bonds in pand Ψ angular as $\Phi = 90^{\circ}$	protegles land	ins are limits $\Psi = 90$	cis. structures ° is disallo	access	ible to	o unfold		of

85.		y [S] wo [S] wo [S] wo	3 &	М	-Menten equation, at ½ of its maximum
86.	Floral A) B) C) D)	Small Large Large	m can be distinguished from versize and decreased frequency esize and increased frequency esize.	of cell of of cell of of cell d	livision livision ivision
87.	Which A) B) C) D)	All cel All cel	ls have the same amount of D	NA and NA but NA and	histones but different amount of RNA. different amount of histones and RNA. histones but same amount of RNA.
88.	A)	t? A. B. C. D. E.	It contains more than 10 subult is located in the interment It contains a sub assembly that it is sensitive to oligomycin it translocates ATP through the B are correct E are correct	nnits. brane spat const nhibition he mito	citute the H ⁺ channel
89.	Weinb	andom erg equ	sample of 400 individuals i	ials are	pulation with alleles of traits in Hardy- e homozygous for allele 'a', how many
90.	The cla	1. 2. 3. 4.	example of maternal effect is Plastid inheritance in <i>Mirabia</i> Male sterility Coiling of Shell in <i>Limnaeap</i> Pigment in <i>Ephestiakuehniela</i>	eregra	рра.
	A) C)	1 and 2 3 and 4	-	B) D)	2 and 3 only 2, 3 and 4 only

91.	Choos	se the co	rrect co	mbinati	ion?					
		a.	Throm			1.	X chromoson	ne inact	ivation	
		b.	Cajal ł	odies		2.	Anticoagulan	t		
		c.			ensation	3.	Blood clotting		de	
		d.	Hepari	-		4.	Biogenesis of			
	A) C)		4, c-1, c-1, c-1, c-3, c			B) D)	a-1, b-3, c-2, a-3, b-2, c-4,			
	C)	a-2, b-	1, 0-3, 0	и -т		D)	a-3, b-2, c-4,	u-1		
92.	Here a	are few s	stateme	nts rega	rding nitrogena	ase enzy	me. Which on	e of the	m is NOT true?	
	A)	Nitrog	enase e	nzyme i	is active only in	n the ab	sence of oxyge	n		
	B)				is a compuse and nitrate			its naı	nely dinitrogenas	se,
	C)				N_2 into ammo		SC.			
	D)	Leg ha	nemoglo	bin wil	l scavenge the		molecule and	make a	noxygenic conditi	on
		for wo	rking o	f the en	zyme.					
93.	Цага	ora favo	statam	anta ra	garding pantic	la hand	Changa tha	aamhir	nation of statemen	nta
93.		are TR		ichts ic	garumg peptic	ie bolic	i. Choose the	COIIIOII	iation of statemen	.115
		1.		e bond	is planar in nat	ure				
		2.			le bond length		Λ^0			
		3.	A pept	ide bon	d is formed be	tween t	he COO group	of one	amino acid with th	ne
					f the adjacent a					
		4.	Peptid	e bond	is polar in natu	ire				
	A)	1, 2 &	3 only	B)	3 only	C)	1 & 3 only	D)	1, 3 & 4 only	
94.	In fov	vl the co	omb pat pea cor	tern sho	ows non-epista	ntic inte	raction. When	a waln	1, 3 & 4 only ut combed fowl w pea: 1 rose:1 sing	
94.	In fow crosse The g	vl the co	omb pat pea cor of walr	tern sho nbed fo nut and j	ows non-epista wl, the proger pea are:	ntic inte	raction. When egated as 3 wa	a waln lnut: 3	ut combed fowl w pea: 1 rose:1 sing	
94.	In fov	vl the co	omb pat pea cor	tern sho nbed fo nut and j	ows non-epista wl, the proger pea are:	ntic inte	raction. When	a waln lnut: 3	ut combed fowl w	
94. 95.	In fov crosse The gr A)	vl the co ed with enotype RrPpX	omb pat pea cor of waln ArrPP	tern should not and plut and p	ows non-epistand, the proger pea are: RRPpXrrPp tio remains the	c same i	raction. When egated as 3 wa RrPPXrrPp	a waln lnut: 3 D) followi	ut combed fowl w pea: 1 rose:1 sing RrPpXrrPp	
	In foverosse The graph (A) Genote A)	vl the co ed with enotype RrPpX typic and Interm	omb pat pea cor of walr KrrPP d pheno ediate c	tern shout and plut a	ows non-epistate wil, the proger pea are: RRPpXrrPp tio remains the nee	c) e same i B)	raction. When egated as 3 wa RrPPXrrPp n which of the Resessive epi	a waln lnut: 3 D) followi stasis	ut combed fowl w pea: 1 rose:1 sing RrPpXrrPp	
	In fov crosse The gr A)	vl the co ed with enotype RrPpX typic and Interm	omb pat pea cor of walr KrrPP d pheno ediate c	tern shout and plut a	ows non-epistand, the proger pea are: RRPpXrrPp tio remains the	c same i	raction. When egated as 3 wa RrPPXrrPp	a waln lnut: 3 D) followi stasis	ut combed fowl w pea: 1 rose:1 sing RrPpXrrPp	
	In fow crosses The gr A) Genot A) C) In a tr 6 and	vl the code with enotype RrPpX Typic and Interm Complition Compliance of the code with the code wit	omb pat pea cor of waln ArrPP d pheno dediate colementa cross, the	tern should not and plut and p	ows non-epistate wil, the proger pea are: RRPpXrrPp tio remains the nee interaction number of program	c) e same i B) D) geny is	raction. When egated as 3 was RrPPXrrPp in which of the Resessive epi Dominant epi 1000. The obse	a waln lnut: 3 D) followi stasis stasis	ut combed fowl w pea: 1 rose:1 sing RrPpXrrPp	are
95.	In fow crosses The gr A) Genot A) C) In a tr 6 and	vl the code with enotype RrPpX Typic and Interm Completihybrid	omb pat pea cor of waln ArrPP d pheno dediate colementa cross, the	tern should not and plut and p	ows non-epistate wil, the proger pea are: RRPpXrrPp tio remains the nee interaction number of program	c) e same i B) D) geny is the gene	raction. When egated as 3 was RrPPXrrPp in which of the Resessive epi Dominant epi 1000. The obse	a waln lnut: 3 D) followi stasis stasis	ut combed fowl we pea: 1 rose:1 sing RrPpXrrPp ng ouble cross overs a	are
95.	In fow crosses The graph (A) Genote A) C) In a trace of and operate A) Which 1. 2. 3.	which control with the	omb pat pea cor of walr ArrPP d pheno lediate of lementa cross, the mber. This region following tends to duction e in num	tern should not and part and p	ows non-epistate wil, the proger pea are: RRPpXrrPp tio remains the nee interaction number of progenees between No interference about Lamar e the size of live organ in the beds to struggle feetter development.	ce C) ckism? cying orgody is the cent and	raction. When egated as 3 was RrPPXrrPp in which of the Resessive epit Dominant epit 1000. The obsees are 20 and 2 0.8 anisms and the ne result of a need among organisms disuse degeneration.	a waln lnut: 3 D) following stasis stasis stasis erved do 5cM. D) ir compare we need ganisms ration of the state of t	ut combed fowl we pea: 1 rose:1 sing RrPpXrrPp ang souble cross overs a Find the interferent 0.2 conent parts. I felt by organism. s.	le.

98.	Which light?	of the follo	owing pept	tide chain sl	hows the g	reater absorp	otion in exp	osure to 28	0nm UV
	A)	S-V-W-D-	F-G-Y-W	-A	B)	Q-L-D-F-	T-L-D-G-Y	7	
	C)	Q-L-F-D-I	F-G-Y-F- <i>A</i>	Λ	D)	S-V-W-D	-F-G-Y-T-(G	
99.	-	nding upon t			re position	the 46 chro	mosomes i	n humans h	ave been
	A)	6	B)	5	C)	7	D)	10	
100.		n with bloc			-	ith blood g	roup 'AB'	. Which an	nong the
	A)	A group	-		B)	AB group			
	C)	O group			D)	B group			
101.	Which A) B) C) D)	Collateral,	darch, clos endarch, c exarch. cl	sed, limited closed, ma osed, many	number of ny vascula y vascular l	vascular bur r bundles	ndles	ct?	
102.	How r A)	many meioti 16	c divisions B)	s is need for 48	the develo	opment of 64 64	spores? D)	24	
103.		Over toppi	phyllous ling - plana ing - synge ing - plana		genesis nation action	th of the foll	owing seri	es led to the	
104.	Which A) B) C) D)	Oxaloaceta Oxaloaceta	decarboxylate formatate is rapid	ated to rele ion is cataly lly converte	ase CO ₂ in vzed by PEled to malate	thway in pla the cytosol P carboxylas in mesophy h Ribulose-	of mesophy se. yll chloropl	asts.	
105.	Which	 De Ord De Far 	rivation of rivation of chids were rivation of	parietal plate bisexual flate considered entomophic inferior over	acentation for accentation for accentation from from an accent from an accent from a central fro	from axile plunisexual floor ly evolved to	lacentation ower. han grasses	I.	
	A) C)	1, 2 and 4 2, 3, 4 and	-		B) D)	2, 3 and 4 All the ab			

106.	The process of rhizodegradation involves:										
	A)	Concentration of toxic contaminants in root, stem and foliage of plant.									
	B)	Degradation of contaminant molecule by plant enzymes.									
	C)	Release of nutrients by plants to microbes in rhizosphere which are active in									
		biodegradation of contaminant molecule.									
	D)	The conversion and storage of contaminant by plants in a form which is not bioavailable									
107.	Which among the following does not use sequence alignment?										
	A)	BLAST	υ	B)	CLUS	_					
	C)	Pair wise alig	gnment	D)	Draw						
108.	Which of the following statements correctly describes the biosynthetic pathway for purine nucleotides?										
	A)	The nitrogen ring in the purine base that is bonded to ribose in the nucleotide is derived originally from glycine.									
	B)	The first enzyme in the path is aspartate transcarbamoylase.									
	C)	Purines deoxynucleotide are made by the same path as ribonucleotides by reduction of the ribose moiety.									
	D)	The purine rings are first synthesized then condensed with ribose phosphate.									
109.	The process of double fertilization involves										
	A) 1	Fertilization of two eggs in the same embryo sac by two male gametes brought by two pollen tubes									
	B)	Fertilization of two eggs in the same embryo sac by two sperms brought by the same pollen tube									
	C)	Fertilization of the egg and the central cell by two sperms brought by the same pollen									
	D)	tube Fertilization of the egg and the central cell by two sperms brought by the different pollen tube									
110.	Which among the following molecular marker is not PCR based?										
110.	A)					RFLP	D)	AFLP			
111.	Which statement correctly describes the electrophoresis of DNA fragments?										
	A)	Larger fragment of DNA move more rapidly to the anode than smaller fragments.									
	B)	Positively charged fragments of DNA move to the anode.									
	C)	Small negatively charged fragments of DNA move rapidly to the cathode.									
	D)	Smaller fragi	ments of DN	A move m	ore rapi	dly than larger	fragme	nts.			
112.	Which	of the follow	ing gives rise	e to genetic	e variati	on in a populat	tion?				
			~ ~	_		rtment in meio					
		2. Different environmental conditions									
		3. Random mating and fertilization									
		4. Muta	tion								
	A)	1 2 3 and 1	R) 1	2 & 3 only	C	1 3 & 1 only	. D)	2, 3 & 4 only			
	11)	1, 2, 3 and 4	D_j 1,	2 & 3 Omy	\sim	1, 5 & 7 Only	ט)	2, 3 & 7 Omy			

113.	Tritica A) C)	ticale is the result of: Intergeneric hybridization Intervarietal hybridization				Intraspecific hybridization Natural hybridization				
114.	The m	narker which in not exploiting microsa SSR B) STMS				variation SNP	D)	ISSR		
115.	The progress and changes during cell division has to be monitored in an experiment. The microscope that is the most suited for this purpose is									
	A) C)	Transmission Phase contrast		n microscopy scopy	B) D)	Scanning el Flourescent		1.0		
116.	Among the following, find the pair that is wrongly matched									
	A)	Chromosome theory of inheritance				Sutton and Boveri				
	B)	Linkage map		-	Sturtevent					
	C)	Mitochondria		-	Altmann					
	D)	Chromosomes	5		-	Chistian de	Duve			
117.	Match the following									
			gate fru	iits	1.	Euphorbiac				
		b. Cyathi			2.	Annonacea				
				entation	3.	Asclepiada				
		d. Pollini	um		4.	Solanaceae				
	A)	a-1, b-2, c-3, c			B)	a-2, b-1, c-4				
	C)	a-2, b-3, c-4,	d-1		D)	a-1, b-2, c-4	4,d -3			
118.		Among the following, find the histones associated within the nucleosome								
	A)	H2A, H2B, H			B)	H1, H2a, H		1.3		
	C)	H1, H2A, H2I	B and F	14	D)	H1, H2, H3	and H4			
119.	In cell	cycle the order	of stag	ges are in this c	hronolo	gy				
	A)	Mitosis, Cytol	kinesis.	G1, S, G2	B)	Mitosis, Cy	tokinesis	s, S, G1, G2		
	C)	Mitosis, Cytol			D)			s, G1, G2, S		
120.	condit When	In Snapdragon, red flower colour is incompletely dominant over white, the heterozygous condition giving pink flowers. However, long pollen is completely dominant over short. When a pure breeding red long plant was crossed with white short plant, what are the ratios of progenies expected in F2?								
	A) B) C) D)	B) 6 red long: 3 pink long: 3 pink short: 2 white long: 1 red short: 1 white short C) 9 red long: 3 red short: 3white long: 1 white short								
