1.	Perianth is represented by (a) glumes (b) lemma (c) lodicules (d) palea			The deteriorative processes in plants, that naturally terminate their functional life, are collectively called (a) wilting (b) abscission			
2.	Table sugar is consist of			(c) plasmolysis	(d) sensescence		
	(a) lactose	(b) sucrose					
	(c) maltose (d) glucose		8.	Which pigment involutions of the change in plants?	ves in photoperiodic		
3.	The terminator gene tech	nnology causes		(a) Phytochrome	(b) Cytochrome		
٠.	(a) failure of seed setting			(c) Chlorophyll	(d) Anthocyanin		
	(b) breakage of seed dori			(0)	(5)		
	(c) early flowering in plar	The second secon	9.	Linnaen system of plant	t classification is based		
	(d) None of the above			on			
				(a) morphological and an	atomical characters		
4.	The term totipotency refers to (a) the capability of organism to regenerate its			(b) evolutionary trends			
				(c) floral characters			
	lost parts			(d) None of the above			
	(b) capability of some	atic cells to produce	10.				
	complete organism			Succession on secondary			
	(c) the introduction of	foreign gene in a cells		(a) primosere	(b) subsere		
	DNA			(c) xerosere	(d) None of these		
	(d) the technique of grow	ring immature embryos	11.	An unrestricted reproduc	stive capacity is called		
5.	Work of Beadle and	Fatum on Nauraspara	11.	(a) birth rate	(b) biotic potential		
Э.	rassa proved that	ratum on weurosporu		(c) carrying capacity	(d) fertility		
	(a) Replication of DNA is	semi-conservative		(c) carrying capacity	(d) Tertifity		
	(b) viruses have genetic r		12.	Ubisch bodies are secret	ed hv		
	(c) every gene is re			(a) tapetum	· ·		
	enzymes	-p		(b) exine			
	(d) plant cells are to tipo	ent		(c) microspore mother cells			
			(d) endothecium				
6.	Polyploidy means occurre	Polyploidy means occurrence of					
	(a) haploid sets of chrom	osomes	13.	Alginic acid is found in th	e cell wall of		
	(b) diploid sets of chromo			(a) Gigartina	(b) <i>Laminaria</i>		
	(c) more than diploid set	s of chromosomes		(c) Gelidium	(d) Scytonema		
	(d) All of the above		3023				
			14.	Lady finger (bhindi) belo	ngs to		

15.	P-proteins are associated	with	25.	Nucellar polyembryony o	occurs in			
	(a) sieve tube elements			(a) Corchorus	(b) Cirrus			
	(b) xylem parenchyma			(c) Carthamus	(d) Zea mays			
	(c) trichomes							
	(d) tracheids and vessels		26.	Male gametophyte of an	giosperms is reduced o			
				(a) one cell	(b) two cells			
16.	Potato is a modification of	of		(c) three cells	(d) four cells			
	(a) stem	(b) rhizome		(6) 66 665	(4) 1041 00115			
	(c) root	(d) leaf	27.	In C₃ plants, the first	st stable product of			
	(6) 1001	(d) leaf	27.	photosynthesis during da				
17.	Anthorozoids of Dryanta	ric are		(a) PGAL	(b) RuBP			
17.	Antherozoids of <i>Dryopter</i>							
	(a) multiciliated and coile			(c) PGA	(d) OAA			
	(b) multiciliated and sickl	e-snaped	••	B				
	(c) biciliated and coiled		28.	During the formation				
	(d) biciliated and sickle-sl	naped		functional megaspore un	dergoes			
				(a) two mitotic divisions				
18.	Ginger multiplies vegetat			(b) two meiotic divisions				
	(a) bud	(b) tuber		(c) three meiotic division	S			
	(c) stem	(d) rhizome		(d) three mitotic divisions				
19.	In Cycas stem, open	vascular bundle is	29.	The first CO ₂ acceptor in	C ₄ cycle is			
	characterized by			(a) RuBP	(b) PEP			
	(a)phloem being sandwit	ched betwee <mark>n xylem</mark>		(c) PGA	(d) OAA			
	(b)cambium present in	between xylem and						
	phloem		30.	The water available to plant	ants for absorption is			
	(c)xylem being sandwitch	ed between phloem		(a) gravitational water				
(d)xylem and phloem occurring on different				(b) hygroscopic water				
	radii			(c) capillary water				
				(d) chemically bound wat	-er			
20.	From which part of cocor	out coir is obtained?		(a) shemisany asana na				
	(a) Pericarp		31.	Cell wall of fungi is made	up of			
	(b) Mesocarp			(a) fungal cellulose	(b) hemicellulose			
	(c) Epicarp			(c) fungal chitin	(d) Both (a) and (c)			
				(c) rungar critim	(a) Both (a) and (c)			
	(d) Endocarp		32.	The plant ash indicates				
21.	Both heterospory and cir	cinato pluvis occur in	32.	(a) organic matter of plan				
21.	191 A	10 100						
	(a) Dryopteris	(b) Finns		(b) mineral salts absorbe				
	(c) Cycas	(d) Funaria		(c) both mineral salts and organic matter				
		.		(d) silica absorbed by pla	nts			
22.	In Funaria, the stomata a							
	(a) foot	(b) seta	33.	During cell cycle, RNA ar	nd non-histone proteins			
	(c) capsule	(d) All of these		are synthesized in				
				(a) S-phase	(b) G _o -phase			
23.	Tracheophyta consists of			(c) G ₂ -phase	(d) M-phase			
	(a) bryophytes only							
	(b) pteridophytes only		34.	Which one of the foll	owing is the terminal			
	(c) gymnosperms and angiosperms			electron acceptor?				
	(d) Both (b) and (c)			(a) Molecular CO ₂	(b) Molecular 0 ₂			
				(c) Molecular H ₂	(d) NADPH ₂			
24.	Green-house effect is ma	inly caused by		_				
	(a) CFCs	(b) CH ₄						
	(c) CO ₂	(d) CO						
	. ,	, ,						

35.	Bract is a modified			(c) Rafflesia	(d) SteHana
	(a) petal	(b) sepal			
	(c) leaf	(d) involucres	47.	The pyramid of energ	y is always
				(a) opaque	(b) horizontal
36.	Hormone replacing	the requirement of	47. The pyramid of energy is always (a) opaque (b) horizontal (c) upright (d) inverted 48. The transition zone between the two vegetations of ecosystem is called (a) ecotone (b) ecocline (c) ecosystem (d) ecesis 49. Protein in silk thread is (a) fibroin (b) keratin (c) albumin (d) globulin tree 50. Thermoregulatory centre of human body associated with (a) cerebrum (b) cerebellum (c) hypothalamus (d) medulla oblongate esent in (a) haemocoel (b) amphicoel (c) pseudocoel (d) schizocoel 51. Body cavity of adult Ascans is (a) haemocoel (b) amphicoel (c) pseudocoel (d) schizocoel 52. Collar cells are characteristic of (a) earthworm (b) roundworms (c) coelenterata (d) sponges 53. In honey bee, the drones are (a) sterile male (c) fertile female (d) sterile female 54. Crypts of Leiberkuhn are involved in (a) secretion of succus entericus (b) secretion of ptyalin (d) digestion of food 55. Plasmids are found in (a) virus (b) bacteria (c) fungi (d) viroid 56. Oxygen dissociation curve is (a) sigmoid (b) parabolic (c) hyperbolic (d) straight line 57. Blood leaving the liver and going towards hea is rich in (a) bile (b) urea (c) ammonia (d) oxygen	(d) inverted	
	vernalization is				
	(a) ethylene	(b) auxin	48.	The transition zo	ne between the two
	(c) gibberellins	(d) cytokinin		vegetations of ecosys	tem is called
	, , ,				
7.	Thigmotropism is best	seen in		A A	
	(a) tendrils	(b) leaf apex			
	(c) root apex	(d) stem apex	49.	Protein in silk thread	is
	Cod a seconda to bound				
88.	Transpiration is measu	ured by			
	(a) potometre	(b) porometre		(0) 4.14 4.11111	(4) 8.000
	(c) auxanometre	(d) respirometre	50.	Thermoregulatory ce	entre of human body is
	(c) daxanometre	(a) respirometre	50.		there of marrian body is
9.	The function of nolym	erase chain reaction is			(h) cerebellum
٥.	(a) transduction	(b) DNA amplification			
	(c) translation	(d) None of these		(c) hypothalamus	(d) meddia obioligata
	(c) translation	(d) None of these	E1	Rody cavity of adult A	scans is
0.	Mutation is more som	mon when it is present in	31.	• /	
υ.					
	(a) recessive conditior(b) dominant conditio			(c) pseudocoei	(d) schizocoei
			F2	Callan calla ana abana	toristic of
	(c) constant in popular		52.		
	(d) None of the above				
14	Th			(c) coelenterata	(a) sponges
1.	5.75	pe of ovule in angiosperms	5 2	In house they the day	
	is	(1)	53.		
	(a) amphitropous	(b) atropous			
	(c) anatropous	(d) circinotropous		(c) fertile female	(d) sterile female
12.		t and Rrtt are crossed, the	54.		
	phenotype ratio of off				
	(a) 3 : 1	(b) 9:3:3:1		The second contract of	
	(c) 1:1	(d) 1:1:1:1			1
				(d) digestion of food	
3.		esistant known biological			
	material is		55.		
	(a) lignin	(b) hemicellulose			
	(c) sporopollenin	(d) lignocelluloses		(c) fungi	(d) viroid
4.	Energy enters the eco	system through	56	Ovugen dissociation c	urve is
٠.	(a) herbivore	(b) carnivore	50.		
	(c) producer	(d) decomposer		· · · —	
	(c) producer	(a) decomposer		(c) hyperbolic	(u) straight line
5.	In soil profile, humus i	s present in	57.	Blood leaving the live	er and going towards heart
	(a) horizon-0	(b) horizon-A			
	(c) horizon-B	(d) horizon-C		(a) bile	(b) urea
	-				
16.	The smallest angiospe	rmic flower is			
	(a) <i>Wolffia</i>	(b) Ranunculus			

58.		the vacuole in a plant	68.	Crossing over occurs	
	cell is called			(a) single strand stage	(b) two strand stage
	(a) tonoplast	(b) tonoplasm		(c) four strand stage	(d) eight strand stage
	(c) jacket	(d) cell membrane			
			69.	"Ontogeny repeats phy	logeny" is the statement
59.	In earthworm, gizzard is	found, in which of the		of which of the followin	
	following segments?	,		(a) Mutation theory	8
	(a) 9 th segment	(b) 18 th segment		(b) Inheritance theory	
	(c) 13 th segment	(d) 16 th segment		(c) Recapitulation theor	V
	(c) 15 Segment	(d) 10 Segment		(d) Natural selection the	·
CO	The infection stars of Fu			(u) Natural Selection the	еог у
60.	The infective stage of En	itamoeba nistolytica is	70	5	
	(a) trophozoite stage		70.	Darwin proposed the th	
	(b) binucleated cyst stag			(a) inheritance of acquir	ed characters
	(c) tetranucleated cyst s	tage		(b) natural selection	
	(d) None of the above			(c) recapitulation	
				(d) continuity of germpl	asm
61.	The initiation codon in e	ukaryotes is			
	(a) AUG	(b) UGA	71.	Which of the follow	wing is not Darwin's
	(c) UAG	(d) UAA		conclusion?	
				(a) Survival of the fittest	1
62.	Pasteurization temperat	ture is		(b) Struggle for existence	
	(a) 72°C for 20 minutes			(c) Inheritance of acquir	
	(b) 63°C for 15 seconds			(d) Origin of species by	
	(c) 70°C for 15 seconds			(4)	
	(d) 65°C for 30 minutes		72.	Nuclear membrane is co	ontinuous with
	(4) 05 0 101 50 111114105		,	(a) rough endoplasmic r	
63.	The number of hear	t chambers found in		(b) smooth endoplasmic	
03.	cockroach is	t chambers round in		(c) cell membrane	reticulum
		(b) 7			
	(a) 4	(b) 7		(d) Golgi bodies	
	(c) 5	(d) 13	70	Compilie	
<i>-</i>	The series of second		73.	Cosmid is	0
64.		ammonia and hydrogen		(a) extragenetic materia	
	in Stanley Miller's exper			(b) circular DNA in bacte	
	(a) 3:1:2	(b) 2 : 1 : 2		(c) extra DNA in bacteria	
	(c) 1 : 2 : 1	(d) 5:4:1			inserted in bacteria for
				forming copies	
65.	Convergent evolution is				
	(a)homologous organ	(b) analogous organ	74.		mality in humans causes
	(c) vestigial organ	(d) All of these		(a) Turner's syndrome	
				(b) Down's syndrome	
66.	Teichoic acid is present i	in		(c) Darwin's syndrome	
	(a) cell wall of Gram pos	itive bacteria		(d) Klinefelter's syndron	ne
	(b) cell wall of Gram neg	gative bacteria			
	(c) capsid of virus		75.	Fertilization of ovum ta	kes place in rabbit, man
	(d) piotoplasmofmycopl	asma		and other placental mar	
	(-)			(a) ovary	(b) fallopian tube
67.	% sign is used for			(c) cervix	(d) uterus
J/.	(a) actinomorphic flowe	r		(c) cci vix	(a) attitus
	The second secon	1	76.	At what stage in test tul	ne habies the zugete is
	(b) zygomorphic flower		70.	At what stage in test tul	
	(c) incomplete flower			implanted in human fen	
	(d) epigynous flower			(a) 32-celled stage	(b) 64-celled stage
				(c) 100-celled stage	(d) 164-celled stage

77.	Pentoses and hexoses ar (a) monosaccharides (c) polysaccharides	e common (b) disaccharides (d) oligosaccharides	86.	Removal or absence of bring about (a) lack of lymphocytes	thymus in early life shall (b) lack of antibodies
78.	Pheromone is	.,		(c) lack of lymph nodes	(d)All of the above
	(a) a product of endocrin	ne gland	87.	Bone marrow is made u	p of
	(b) used for animal comr	nunication		(a) muscular fibre and fa	itty tissue
	(c) messenger RNA			(b) fatty tissue and areo	lar tissue
	(d) always protein			(c) fatty tissue and cartil	-
				(d) fatty tissue, areolar t	issue and blood vessel
79.	Secretion is under con	trol of neurosecretory			
	nerve axons in	// No. 1 1	88.	Mast cells secrete	
	(a) pineal gland	(b) adrenal cortex		(a) serotonin	(b) heparin
	(c) anterior pituitary	(d) posterior pituitary		(c) histamine	(d) All of these
80.	If an isolated strain of	DNA is kept at 82-90°C	89.	Which one is componen	t of ornithine cycle?
	then			(a) Ornithine, citrulline a	
	(a) it changes into RNA			(b) Ornithine, citrulline a	7-
	(b) it breaks into two frag			(c) Ornithine, citrulline a	
	(c) it breaks into many fr	1 -		(d) Amino acids are not	used
	(d) it uncoils and the two	strands separate	00	Didded lie	tu.
81.	The smallest endocrine g	dand is	90.	Bidder's canal is present (a) male rabbit	(b) male frog
01.	(a) thyroid	(b) parathyroid		(c) female frog	(d) Both (b) and (c)
	(c) pituitary	(d) adrenal		(c) Terriale 110g	(a) both (b) and (c)
	(c) picarcary	(a) adicital	91.	Zygomatic arch of rabbit	is formed of
82.	Ban body in mammals re	presents		(a) maxilla, periotic and	
	(a) all the heterochroma			(b) periotic, jugal and pa	
	(b) one of the two X-ch	romosomes in somatic		(c) maxilla, squamosal a	nd jugal
	cells of females			(d) maxilla, premaxilla a	nd squamosal
	(c) all the heterochroma	atin in male and female			
	cells		92.	Role of spleen in mamm	
	(d) the Y-chromosome in	somatic cells of male		(a) to control blood pres	sure
				(b) to assist liver	
83.	Gland responsible for cal			(c) to act as haemopoiet	ic tissue
	(a) thymus (c) parathyroid	(b) thyroid (d) adrenal		(d) to assist kidneys	
	(c) paracity tota	(a) adicilai	93.	Excretory product of spi	der is
84.	Which of the following	ng is not a case of		(a) uric acid	(b) ammonia
	epimorphosis?			(c) guanine	(d) None of these
	(a)Formation of sperms	from small clumps of			
	cells		94.	Green glands present in	n some arthropods help
	(b) Regeneration of tail is			in	
	(c) Replacement of sever			(a) respiration	(b) excretion
	(d) Replacement of limb	in salamander		(c) digestion	(d) reproduction
85.	The daughter born to I	naemophilic father and	95.	Sensation of stomach pa	in is due to
	normal mother could be	,		(a) interoceptors	(b) exteroceptors
	(a) normal	(b) carrier		(c) proprioceptors	(d) teloceptors
	(c) haemophilic	(d) None of these			

- 96. Right lung of rabbit is divided into
 (a) four lobes
 (b) two lobes
 (c) six lobes
 (d) eight lobes
 (a) Cro-magnon
 (c) Neanderthal
- (a) CO₂ (b) CO
 - (c) O_2 (d) NH_3
- 98. Veliger larva occurs in phylum(a) Mollusca(b) Echinodermata(c) Arthropoda(d) Cnidaria

- The most recent and direct prehistoric ancestor of present man is
 (a) Cro-magnon
 (b) Pre-Neanderthal
 (c) Neanderthal
 (d) None of these
- 100. "Darwin's finches" refers to
 (a) fossils of birds collected by Darwin at Galapagos islands
 (b) a type of birds present of Galapagos islands
 (c) migratory birds collected by Darwin at Galapagos islands
 - (d) fossils of reptiles collected by Darwin at Galapagos islands

Answer – Key

1. c	2. b	3. a	4. b	5. c	6. c	7. d	8. a	9. c	10. b
11. b	12. a	13. b	14. a	15. a	16. a	17. a	18. d	19. b	20. b
21. c	22. c	23. d	24. c	25. b	26. c	27. c	28. d	29. b	30. c
31. d	32. b	33. c	34. b	35. c	36. c	37. a	38. a	39. b	40. b
41. c	42. d	43. c	44. c	45. b	46. a	47. c	48. a	49. a	50. c
51. c	52. d	53. b	54. a	55. b	56. a	57. b	58. a	59. a	60. c
61. a	62. d	63. d	64. b	65. b	66. a	67. b	68. c	69. c	70. b
71. c	72. a	73. d	74. a	75. b	76. a	77. a	78. b	79. d	80. d
81. c	82. b	83. c	84. a	85. b	86. d	87. d	88. d	89. b	90. b
91. c	92. c	93. c	94. b	95. a	96. a	97. b	98. a	99. a	100. b