1.	Keserpine is obtained from (a) Asafoetida (b) Rauwolfia serpentina (c) Curcuma longa (d) Pnpaver sonimferum	n:		(a) RBC of human(b) Human liver(c) Stomach of Anopheles(d) Salivary and of Anophe	eles mosquito			
_	-		9.	Primary acceptor of CO ₂ in	n photosynthesis is:			
2.				(a) phosphoric acid(b) ribulose phosphate				
		(b) chcmotaxis		(c) glucose				
		(d) geotaxis		(d) ribulose 1,5 biphospha	ate			
3.	Sperm enters from which		10.	If Hydra is cut transversl	y in three equal parts			
	A5- 15 A A A A A A A A A A A A A A A A A A	zed egg from animal		then:				
		fertilized egg		(a) all three parts will die (b) regeneration will occu	r in all the three narts			
(a) (b) (c) (d) 2. The res (a) (c) 3. Spe (a) po (b) (c) (d) 4. See (a) (c) 5. 6m AD (a) (c) 6. A cnn (a) (c) 7. On (a) (c) 8. Wh				(c) regeneration will occu				
		r vegetai pole		(d) regeneration occurs of				
				(.,,,				
4.	Seed coat is derived from (a) pericarp (c) integuments of ovule	(b) epicarp	11.	Which of the following membrane? (a) Nucleus and ER				
_	Employulos alucoso IE n	and and a		(b) Mitochondria and chlo (c) Ribosome and nucleol				
5.	(b) Rauwolfia serpentina (c) Curcuma longa (d) Pnpaver sonimferum The coiling of tendril a response to touch is called (a) hydrotaxis (c) thigmtropism Sperm enters from which (a) anywhere in unfertilized egg from (d) none of these above Seed coat is derived from (a) pericarp (c) integuments of ovule 6molecules glucose +6 ADP combined to form 6l (a) 38 molecules of ATP (c) 38 ADP A characteristic feature compestris is: (a) presence of replum (c) epigynous One of the characteristic (a) predation (c) hibernation Where does exocrythroce			(d) Golgi body and lysosoi				
2. Tr () () () () () () () () () () () () () ((b) 28 ATP		(a) doigt body and tysosome				
		(d) 28 ADP	12.	Which of the following sta	atement is correct?			
	(-)	(,		(a) In <i>Cycas</i> , megaspore				
6.	A characteristic feature	of ovary of Brassica		grains				
	cnmpestris is:			(b) In Agaricus gills produ	ce basidiospores			
		(b) axilc placentation		(c) In Aspergillus, fruiting				
	(c) epigynous	(d)multilocular nature		(d) In <i>Funaria</i> , capsule re	presents gametophytic			
7	One of the characteristic	of Hudra ice		generation				
7.		(b) metamerism	13.	The number of DNA in ch	romosome at G _o stage:			
		(d) mimicry	13.	(a) one	(b) two			
	(5) 111001110111	(2)		(c) four	(d) eight			
8.	Where does exocrythrocy life cycle of <i>Plasmodium</i> ?	tic cycle take place in						

14.	How many egg are fou	ınd in egg chamber of		(b) linkage	
	female Cockroach?			(c) purity of gametes	(d) none of these
	(a) 2	(b) 4			
	(c) 8	(d) 16	24.	What type of gametes Yy?	will form by genotype Rr
15.	Which of the following is	a disaccharide?		(a) RY, Ry, rY, ry	(b) RY, Ry, ry, ry
	(a) Glucose	(b) Fructose		(c) Ry, Ry, Yy, ry	(d) Rr, RR, Yy, YY
	(c) Sucrose	(d) Galactose		(-,,,,, .,, .,	(2,7,, .,7,7
	(0) 0 3 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	(4) 54.45.55	25.	The position of protoxy	lem in leaf is :
16.	If all the peptide bonds	of protein are broken		(a) adaxial	iem in lear is .
10.	then the remaining part			(b) abaxial	
	(a) amide	(b) oligosaccharide		(c) surrounded by meta	vviem
	(c) polypeptide	(d) amino acid		(d) lateral	Ayiciii
	(c) polypeptide	(u) allillo acid		(u) lateral	
17.	Periplaneta has no res blood because:	piratory pigment in its	26.	In <i>Pheretinia,</i> locomotiof:	on occurs with the help
	(a) air is conducted direct	tly to the body tissues		(a) circular muscles	
	(b) it has haemocoelom			(b) longitudinal muscles	s and setae
	(c) it has anaerobic respi	ration		(c) circular, longitudina	l muscles and setae
	(d) it lacks blood cell in b	lood		(d) parapodia	
18.	Which is correct for meio		27.		em of gymnospenns and
	(a) Bivalents arc arrange	•		angiosperms is due to:	
	(b) Univalents arc arrang			(a) parenchyma	(b) sieve cell
	(c) Non-homologous chr			(c) companion cell	(d) fibres
	(d)Spindle fibres are at	tached at chromomere			
			28.	A type of life cycle	in which plasmogamy,
19.	Hydrolysis of lipid yields:			karyogamy, haplodizati	on takes place but not at
	(a) fats			specific place in life	cycle of an organism is
	(b) fatty acids and glycer	ol		called as :	
	(c) mannose and glyccro			(a) parasexuality	(b) heterozygosity
	(d) maltose and fatty aci	d		(c) homozygosity	(d) asexuality
20.	Ctenophora shows affini		29.		ontrols the cytoplasmic
	(a) Cnidaria	(b) Aschelminthes		osmality :	
	(c) Cephalopoda	(d) Turbelaria		(a) nucleus	(b) ectoplasm
				(c) biurets	(d)contractile vacuole
21.	In the following how the	e sap wood is converted			
	into heart wood?		30.	Branched, aseptate,	coenocytic mycelium
	(a) By degeneration of p	rotoplast of living cells		present in :	
	(b) Tylosis formation			(a) Aspergillus	(b) <i>Albugo</i>
	(c) By deposition of resir	ıs, oil, gums etc		(c) Penicillium	(d) <i>Erysiphe</i>
	(d) All of these				
			31.		ving aestivation sepal's/
22.	In which of the follo				overs the other and its
	divisions arc restricted	•		margin is covered by pr	
	cytoplasm and nucleus in	0.000		(a) valvate	(b) twisted
	(a) Cockroach	(b) Frog		(c) imbricate	(d) quincuncial
	(c) Chick	(d) Rabbit			
	59A 943 50/00 W		32.	In Cockroach vision is d	ue to:
23.	Exception of Mendel's la			(a) one compound eye	
	(a) independent assortm	ent		(b) only two compound	eves

	(d) two compound and two simple eyes		hypotonic solution then water will move inside the cell. Which force causes this?		
33.	The economically important plant of Malvaceae: (a) <i>Gossypium hirstum</i>		(a) DPD (c) WP	(b) OF (d) None of these	
	(b) Hibiscus cannabis			i	
	(c) Abelmoschus esculentum	43.	Dormancy of seed is bro		
	(d) all of the above		(a) auxin	(b) gibberellins	
			(c) ethylene	(d) cytokinin	
34.	When tall and dwarf plants are crossed, from				
	which cross 1:1 ratio is obtained?	44.	Mitosis occurs in :		
	(a)Tt and tt (b) tt and tt		(a) haploid individuals	(b) diploid individuals	
	(c) Tt x Tt (d) TT and Tt		(c) in bacteria only	(d) both 'a' and 'b'	
35.	The cells without nuclei are present in:	45.	Girth of dicot stem incre	eases by the activity of:	
	(a) vascular cambium		(a) apical meristem		
	(b) root hair		(b) intercalary meristem		
	(c) companion cell		(c) lateral meristem		
	(d) members of sieve tube		(d) procambium meriste	em	
36.	Which of the following is not correctly	46.		han two plant species is	
	matched?		called as:	//-/ ! I	
	(a) Rhinoncephalon-olfactory		(a) plant community	(b) animal ecosystem	
	(b) Hypothalamus-pituitary (c) Cerebellum-balance		(c) Plant ecosystem	(d) ecological niche	
	(d) Medulla oblongata-temperature regulation	47.	Which type of kidneys a	re found in amphibian?	
	(u) Medalia obioligata-temperature regulation	٦/.	(a) Holonephric	(b) Mesonephric	
37.	Pyruvic acid is the end product of which		(c) Pronephric	(d) Metanephric	
	process?		(o) i i onepimie	(a) metanopinio	
	(a) Krebs cycle	48.	That haploid cell whic	h divides by mitosis to	
	(b) Calvin cycle		form embryo sac is :		
	(c) Pentose phosphate pathway		(a) megaspore mother of	ell	
	(d) Glycolysis		(b) microspore mother of		
			(c) functional megaspor	e	
38.	The nutritive layer of micros porangia of		(d) non-functional mega	ispore	
	(a) endothecium (b) exothecium				
	(c) sporogenous tissue (d) tapetum	49.	One of the nucleotide o	f DNA:	
			(a) adenine		
39.	The scientist who was awarded Nobel prize in		(b) deoxyadenylic acid		
	1959 for in <i>vitro</i> synthesis of polyribonucleotide:		(c) adenosine		
	(a) Komberg (b) Calvin		(d) deoxyuridine phosph	nate	
	(c) Khurana (d) Ochoa				
		50.		enzymes for glycolysis?	
40.	Which of the following have sunken stomata?		(a) Cytoplasm	(b) Mitochondria	
	(a) Nerium (b) Manyfera		(c) Golgi complex	(d) Nucleus	
	(c) Hydrilla (d) Zea mays			. 7.7	
	the state of the s	51.	-	cies which cause white	
41.	Heterocercal tail is found in :		rust of Crucifers?		
	(a) Cartilaginous fishes (b) Bony fishes		(a) Peronospora parasiti	ca	
	(c) Whale (d) Amphibians		(b) Puccinia graminis	_	
			(c) Pythium debargamin	7	
			(d) Albugo Candida		

42. When a plasmolysis cells is placed in a

(c) two simple eyes

52. What is haemozine? (d) Multilocular heart. (a) Undigested part of blood in trophozoite of Plasmodium 62. In a monohybrid cross when F₁ is crossed with homozygous dominant parent then which type (b) Blood pigment of Anopheles (c) Dcomposed blood in merozoites of offspring's will obtain? (d) Granules in the blood of infected person (a) Dominant; recessive (3:1) (b) Only recessive 53. Family Lilliaceae is characterized by: (c) Dominant: recessive (1: 1) (a) trimerous flower (d) No recessive (b) tetramerous flower (c) pentamerous flower 63. Which one of the following body functions is not performed by kidneys? (d) zygomorphic flower (a) Excretion (b) Osmoregulation 54. In sweet pea tendrils are modified: (c) Regulation of blood volume (d) Destruction of dead blood corpuscles (a) stipule (b) stem (c) leaf (d) leaflet Which gland is associated with fur hairs of 64. Rabbit? 55. Root cap is absent in: (a) mesophytes (b) hydrophytes (a) Mucous gland (b) Sweat gland (c) epiphytes (d) xerophytes (c) Mammary gland (d) Sebaceous gland 56. Which of the following nerve supplies organ of 65. The study of fossils is called: corti? (a) Palynology (b) Palaeontology (a) Auditory (b) Olfactory (c) Fossil systematic (d) Pharmticognosy (c) Trochlear (d) Vagus 66. The body cavity of Ascaris is: (a) lined by mesoderm 57. Nucleic acid segement which is used to find the position of a gene and it forms a hybrid with this (b) not lined by mesoderm gene would be? (c) formed by octoderm (a) Retrovirus (b) Probe (d) filled with parenchyma (c) Vector (d) Clone 67. The characteristic of blue-green algae is: 58. Insect's eggs are: (a) DNA without histone (b) nuclear membrane absent (a) microlecithal and centrolecithal (b) megalecithal and isolecithal (c) 70S ribosomes (c) megalecithal and centrolecithal (d) alt of the above (d) megalecithal and telolacithal 68. Classification of sponges is primariy based on A pond is a: 59. (a) biome (b) natural ecosystem (a) body organization (b) body plan (c) artificial ecosystem (c) skeleton (d) canal system (d) community of plants and animals 69. In mammals corpus Inuteum is found in which organ? 60. In crustaceans, respiration takes place by: (a) gills (b) book lungs (a) Brain (b) Ovary (c) ctenidia (d) trachea (c) Liver (d) Eyes 61. Which of the two characters are typical of 70. Which type of rhizoids are present in *Riccia*? Ascaris? (a)Unicellular smooth (a)Sexual dimorphism and rhabditiform larva (b)Multicellular smooth (b) Hennaphroditism and pseudocoelomic (c)Unicellular smooth and tuberculated (c) Parasitism and metamerism (d) Multicellular smooth and tuberculated

71.	Which character is found	only in mammals?	80.	At which stage of spermatogenesis sperm				
	(a) Neck	(b) Diaphragm		aquire their whole s	tructural maturity and			
	(c) Optic lobes of brain	(d) Tail			id nucleus and other			
	N - 1 C ATD - 1 - 1			organs:	(L)			
72.	Number of ATP obtaine	ed at the end of Krebs		(a) spermiogenesis	(b) growth phase			
	cycle are:	(1.) 4.470		(c) multiplication phase	(d) maturation phase			
	(a) 2 ATP	(b) 4 ATP		11/11/11 - 6.1 - 6.1 - 6.1 - 1				
	(c) 36 ATP	(d) 38 ATP	81.	of Calvin cycle?	is used during discovery			
73.	Which is correct about th	ne bile of Rabbit?		(a) Spirogyra (b) Volvox				
	(a)It is synthesized by	gall bladder and also		(c) Chlamydomonas	(d) Chlorella			
	stored there							
	(b) It is an enzyme which emulsify the fats			What happens in anterio	or part of <i>Amoeba</i> at the			
	(c) It contain bile salts and bile pigments			tune of formation of pseudopodia?				
	(d) Bilirubin present in it dicomposes fats			(a) plasma gel convert into plasma sol				
				(b) plasma sol convert into plasma gel				
74.	Which type of vascular	bundles are found in		(c) ectoplasm convert in				
	monocot stem?			(d) endoplasm convert i	nto ectoplasm			
	(a) Coilateral, open, enda	arch	(12002)					
	(b) Radial, open, diarch		83.		which diet is less than			
	(c) Radial, open, mesarch			unity?	(1.) =			
	(d) Coliateral, closed, end	darch		(a) Carbohydrate	(b) Fats			
	Which have a flame face	d in the days		(c) Organic acid	(d) Sugar			
75.	Which type of larva foun		0.4	In Dalahit at the time	of fortilization sugato is			
	(a) Parenchymula (c) Trochopbore	(b) A <mark>mphiblastula</mark> (d) Hydrula	84.	In Rabbit at the time of fertilization zygote is formed in :				
	(c) Trochopbore	(d) Hydruia		(a) coelom	(b) fallopian tube			
76.	In rhizome of <i>Pteria</i>	lium stele which is		(c) uterus	d) vagina			
σ.				(c) ateras	a) vagilla			
	composed of two or more than two concentric rings of vascular bundles is called:			Velamen and spongy tis	sue is found in :			
	(a) polycyclic	is called?	85.	(a) breathing roots	(b) parasitic roots			
	(b) siphonostele			(c) tuberous roots	(d) epiphytic roots			
	(c) ectophloic siphonoste	ele		(,,	(3)			
	(d) cladosiphonostelo		86.	The function of clitellum	in <i>Pheretima</i> is :			
				(a) formation of cocoon				
77.	Which of the following	is not the correct for		(b) secretion of hormon	e			
	gastrulation?			(c) nutrition of sperm	(d) respiration			
	(a) Archenteron is forme	d						
	(b) all germinal layers are formed			Which animal is "protoc	hordate"?			
	(c) Morphogenetic movements			(a) Hcrdniania	(b) Balanoglossus			
	(d) Some blastomeres an	d blastoa degenerate		(c) Branchiostoma	(d) <i>Botryllus</i>			
78.	The chemical formula of	starch is:	88.	Which of the following i	s not a function of water			
	(a) $(C_6H_{10}O_5)_n$	(b) $(C_6H_{12}O_6)_n$		in cell ?				
	(c) $(C_{12}H_{22}O_{11})_n$	(d) $CH_3COO_{11}H$		(a) It provides energy fo	r chemical reaction			
	(c) (c)121122 11 Jn	(4) 01130001111		(b) It act as a solvent (c) It provides a medium for chemical reaction				
79.	Which of the following	mollusc is formed by a						
	larva which have torsion	?		(d) It release hydrogen i	ons on ionization			
	(a) Lamelledens	(b) <i>Pila</i>	89.	In life cycle of Plasmon	lium exflagellation leads			
	(c) Sepia	(d) <i>Octopus</i>	55.		Tarri extrageriation reads			

to:

(a) formation of microgametes

- (b) formation of flagella in sperm 95. Which of the following is the site of lipid (c) destruction of flagella from sperm synthesis? (d) formation of sporozoites (a) Rough ER (b) Smooth ER (c) Golgi bodies (d) Ribosome 90. In which of the following reptiles four chambered heart is present? 96. Which of the following vessel in Rabbit starts (a) Lizard (b) Snake with capillaries and ends in capillaries? (c) Scorpion (d) Crocodile (a) Pulmonary artery (b) Renal vein (c) Hepatic portal vein (d) Renal artery 91. Rate of transpiration is measured by: (a) manometer (b) auxanometer 97. Which character is not same in Aves and (c) potometer (d) barometer Mammals? (a) Single systemic arch Pigments present in chloroplast of *Ulothrix*: (b) Metancphric kidney 92. (a)chlorophyll a, chl-b, fucoxanthin β - carotene (c) Seven cervical vertebrae (d) Homeotherms (b) chl-a, chl-b, chl-c, C-phycocyanin, Cphycoerythrin 98. What is pollen grain? (c) chl-a, chl-b. β- carotene, xanthophyll (a) Microspore mother cell (d) chl-a, chl-b. r-phycocyanine r-phycoerythrin (b) Male gamete (c) Male gametophyte 93. In Mirabilis a hybrid for red (RR) and white (rr) (d) Partially developed embryo flower produces pink (Rr) flower. A plant with pink flower is crossed with white flower the 99. Solenocytes and nephridia are respectively expected phenotypic ratio is: found in: (a) red: pink: white (1:2:1) (a) Platyhelminth and Annelids (b) pink : white (1:1) (b) Annelids and Nematoda (c) red: pink (1:1) (c) Cendaria and Mollusca (d) red: white (3:1) (d) Mollusca and Echinodermata Which one hormone of the pituitary of the **100.** If a cell shrinks when placed in a solution this solution is:
- 94. Rabbit controls the protein metabolism and growth of skeleton?
 - (a) lodo thyroxine
 - (b) Leutotrophic hormone
 - (c) Somatotrophic hormone
 - (d) Oxytosine

Answer - Key

(a) hypotonic

(c) isotonic

(b) hypertonic

(d) mesotonic

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