1.	The trisomy for 21 st chro (a) Down's syndrome	mosome is called (b) Turner's syndrome		(c) Hyaline cartilage	(d) All of these			
	(c) Sickle cell anaemia			Rh factor is present in				
	(d) Klinefelter's syndrom	e	9.	(a) all vertebrates	(b) all mammals			
	(-)			(c) all reptiles	(3)			
2.	'Mammalian thymus' is	mainly concerned with		(d) man and rhesus mon	key only			
	(a) regulation of body te	mperature						
	(b) regulation of body gr	owth	10.	In rabbit, end of a long bone is connected in				
	(c) immunological functi	ons		another by				
	(d) secretion of thyrotro	pin		(a) tendon	(b) ligaments			
				(c) muscle	(d) cartilage			
3.	Which of the following i	s the largest gland in an						
	adult man?		11.	Which of the following co	ell type is capable of			
	(a) Thymus	(b) Liver		giving rise to other cell types in sponges?				
	(c) Thyroid	(d) Pancreas		(a) Thesocytes	(b) Pinacocytes			
				(c) Cnidocytes	(d) Archaeocytes			
4.	In <i>Pheretima</i> , septa are	absent between which						
	segments?		12.	Thigmotaxis is not shown by				
	(a) 3/4 and 9/10	(b) 4/5 and 8/9		(a) Paramecium	(b) Amoeba			
	(c) 5/6 and 7/8	(d) 7/8 and 6/7		(c) Ascaris	(d) Hydra			
5.	During emergency wh	aich of the following	13.	Which is correctly match	eq5			
Э.	hormone is secreted?	nen of the following	13.	(a) Apiculture—Honey be				
	(a) Aldosterone	(b) Thyroxir		(b) Pisciculture—Silk mot				
	(c) Adrenaline	(d) Calcitoni		(c) Sericulture—Fish				
	(c) Naterialitie	(a) carettom		(d) Aquaculture—Mosqu	ito			
6.	In which of the followi	ng animals, respiration		(a) riquadartare irrosqu				
	occurs without any respi		14.	Changes that allow the	conversion of larva into			
	(a) Frog	(b) Fish		adult, is called				
	(c) Cockroach	(d) Earthworm		(a) metagenesis	(b) alternation			
	. ,	. ,		(c) metamorphosis	(d) metastasis			
7.	In cockroach, larval and	nymphal characters are						
	maintained by		15.	Animals having a built in thermostat to maintain				
	(a) ecdysone	(b) salivary glands		constant body temperature are known as				
	(c) parotid gland	(d) juvenile hormone		(a) biothermic	(b) poikilothermic			
				(c) oligothermic	(d) homeothermic			
8.	Which of the followng is	a transparent tissue?						
	(a) Tendon (b) Fibrous cartilage							

16 .	The intermediate host of	of Schistosoma is		(c) white ants	(d) bed bug			
	(a) snail	(b) mosquito						
	(c) housefly	(d) sheep	28.	In Ascaris, the coelom	is			
				(a) schizocoelom	(b) pseudocoelom			
17.	The islets of Langerhans	are found in						
	(a) pancreas	(b) stomach		In Ascaris, the coelom is (a) schizocoelom (b) pseudocoelom (c) true coelom (d) haemocoelom 'Turbellarians' are free living (a) nematodes (b) cestodes (c) flat worms (d) trematodes The characteristic larva of phylum— Coelenterata' is (a) planula (b) cysticercus (c) rhabdiform (d) wriggler In rabbit, head of epididymis present at the head of the testis is called (a) vas deferens (b) cauda epididymis (c) gubemaculum (d) caput epididymis Tendons and ligaments are specialized types of (a) nervous tissue (b) muscular tissue (c) epithelial tissue (d) connective tissue In blood, CO2 in transported majorly as sodium (a) carbonate (b) carboxy haemoglobin (c) bicarboxy haemoglobin (c) bicarbonate (d) CO2 as such Animals undergoes inactive stage during winter, is known as (a) aestivation (b) hibernation (c) adaptation (d) acclimatization Kupffer cells are present in (a) liver (b) small intestine (c) pancreas (d) thyroid gland The embryo at 16 celled stage is known as (a) morula (b) gastrula (b) gastrula (c) blastula (d) blastomere Contractile vacuole in protozoan Amoeba is meant for (a) respiration (b) excretion (d) Hugo de Vries (b) Barbara Me Clintock				
	(c) liver	(d) alimentary canal	29.	'Turhallarians' are free	(b) pseudocoelom (true coelom (d) haemocoelom (d) true coelon (d) trematodes (e) flat worms (d) trematodes (e) characteristic larva of phylum—belenterata' is (e) planula (b) cysticercus (d) wriggler (e) trabbit, head of epididymis present at the ead of the testis is called (e) vas deferens (e) cauda epididymis (e) caput epididymis (e) caput epididymis (e) caput epididymis (e) caput epididymis (e) epithelial tissue (e) (e) muscular tissue (e) epithelial tissue (f) connective tissue (f) connective tissue (f) connective tissue (f) carboxy haemoglobin (f) bicarbonate (f) CO2 as such finals undergoes inactive stage during winter, known as (f) aestivation (f) acclimatization (f) adaptation (f) acclimatization (f) pancreas (f) thyroid gland (f) pancreas (f) thyroid gland (f) pancreas (f) pancr			
	(c) livel	(d) allitieritary cariar	23.					
	The observation college to the							
18.		sential for blood clotting		(c) flat worms	(d) trematodes			
	is	// N						
	(a) vitamin-A	(b) vitamin-B	30.		larva of phylum—			
	(c) vitamin-C	(d) vitamin-K						
				(a) planula	(b) cysticercus			
19.	The female genital pore	of Pheretima posthuma		(c) rhabdiform	(d) wriggler			
	located upon the segme							
	(a) 14 th	(b) 16 th	31.	In rabbit, head of en	pididymis present at the			
	(c) 18 th	(d) 15 th		The state of the s				
	(-7	(,						
20.	Polyp phase is absent in							
20.	(a) Hydra	(b) <i>Aurelia</i>		(c) gubernaculum	(d) caput epididyiiiis			
	3 6 5	(d) Obelia	22	Tondone and ligament	s are energialized types of			
	(c) Physalia	(d) Obella	32.	,				
	L C							
21.	In frog heart, there are cardiac muscles which			(c) epithelial tissue	(d) connective tissue			
	consists of fibres called							
	(a) Purkinje fibres	(b) myonemes	33.	(a) carbonate				
	(c) telodendria	(d) columna <mark>e camae</mark>						
				(b) carboxy haemoglob	pin			
22.	Malpighian tubules are			(c) bicarbonate	(d) CO ₂ as such			
	(a) excretory organs of i	nsects						
	(b) excretory organs of t		34.	Animals undergoes ina	ctive stage during winter,			
	(c) respiratory organs of	_						
	(d) endocrine glands of				(b) hibernation			
	(a) endomic Blands of							
23.	LH and FSH are collectiv	ely called		(c) adaptation	(a) accimiatization			
23.	(a) oxytocin	(b) somatotropins	35.	Kunffor colls are prose	nt in			
			33.					
	(c) luteotropic	(d) gonadotropins						
	144			(c) pancreas	(d) thyrold gland			
24.	Who is known as "fathe							
	(a) RHWhittaker	(b) Pasteur	36.					
	(c) Einthoven	(d) Thomas Addison						
				(c) blastula	(d) blastomere			
25.	Which of the following	g provides most evident						
	proof of evolution?		37.	Contractile vacuole i	n protozoan <i>Amoeba is</i>			
	(a) Fossils	(b) Morphology		meant for				
	(c) Embryo	(d) Vestigial organs		(a) respiration	(b) excretion			
	, ,	(,						
26.	In Mollusca, eye is prese	ent over a stalk called			1,			
	(a) ostracum	(b) operculum	38.	lumning genes in maiz	e were discovered by			
	(b) ommatophores	(d) osphradium	30.		c were discovered by			
	(b) ommatophores	(a) Ospiliaululli						
27	A	alamial imagete erre			K			
27.	Among the following, co							
	(a) locusts	(b) mosquitoes		(d)Mendel				

39.	Streptomycin is obtained (a) Streptomyces griseus		51.	Which is always pressmog?	sent in photochemical
	(c) S. venezuelae	(d) S. ramosus		(a) O ₃	(b) CO ₂ (d) CH ₄
40.	Binomial system of nome	anclature was given hy		(c) SO ₂	(d) Cn ₄
70.	(a) Julian Huxley	chiciature was given by	52.	In cell cycle, during whi	ch phase, chromosomes
	(b) Bentham and Hooker		32.	are arranged in equator	
	(c) Linnaeus	(d) Casper Bauhin		(a) Metaphase	(b) Anaphase
	(c) Ellillacus	(a) casper baumin		(c) Telophase	(d) Prophase
41.	Indusium is found in			(c) reliabilitate	(a) Hophase
	(a) algae	(b) ferns	53.	The soil which is transp	orted by wind is known
	(c) moss	(d) Cycas		as	the second section of the second section is
	(-)	(-) -/		(a) colluvial	(b) eolian
42.	The vacuole is lined by a	membrane called		(c) aluvial	(d) galcial soil
	(a) tonoplast	(b) jacket			
	(c) cell membrane	(d) tonoplasm	54.	Spindle fibre is made up	of
				(a) tubulin	(b) humulin
43.	Agar-agar is obtained fro	m		(c) intermediate filamen	t (d) flagellin
	(a) Chlorella	(b) <i>Spirogyra</i>			
	(c) Ulothrix	(d) <i>Gelidium</i>	55.	Lichen is the pioneer	vegetation on which
				succession?	
44.	DNA element with ability	to change position is		(a) Hydrosere	(b) Lithosere
	called			(c) Psammosere	(d) Xerosere
	(a) cistron	(b) trans <mark>poson</mark>			
	(c) intron	(d) recon	56.	Law of limiting factors w	as given by
				(a) Leibig	(b) Blackman
45.	Initiation codon is			(c) Calvin	(d) Arnon
	(a) UUU	(b) UGA			
	(c) AUG	(d) UAG	57.	In <i>Pinus,</i> male cone bear	
				(a) ligules	(b) anthers
46.	DNA multiplication is call			(c) micro-sporophylls	(d) mega-sporophylls
	(a) translation	(b) replication			
	(c) transduction	(d) transcription	58.	Induction of flowering	g by low temperature
				treatment is	(1.)
47.	Duramen is present in			(a) vernalization	(b) cryobiology
	(a) inner region of second	dary wood		(c) photoperiodism	(d) pruning
	(b) part of sap wood	damad	Ε0	D	
	(c) outer region of secon	dary wood	59.	Decomposers are	/b\
	(d) region of pericycle			(a) autotrophs	(b) autoheterotrophs
48.	In plants water supply is	due to		(c) organotrophs	(d) heterotrophs
40.	In plants, water supply is (a) osmosis	(b) imbibition	60	Cleavage polyembryony	occurs in
	(c) guttation	(d) adhesion force	60.	(a) Pinus	(b) Mini <i>Cycas</i>
	(c) guitation	(d) adriesion force		(c) Cycas	(d) Ephedra
49.	Programmed cell death	is scientifically termed		(c) Cycas	(a) Epileara
→ 3.	as	is scientifically terrilled	Edible part of mushroon	n is	
	(a) autotomy	(b) cell lysis	61.	(a)basidiocarp	11 13
	(c) apoptosis	(d) None of these		(b)secondary mycelium	
	(0) apoptosis	(a) None of these		(c) primary mycelium	(d) tertiary mycelium
50.	Paraffin wax is			(a) primary mycenam	(a) terdary mycenam
-0.	(a) ester	(b) acid			
	(c) monohydric alcohol				

62.	Which of the following	g plant product is the	73.	Lady finger belongs to	family
	hardest?			(a) Malvaceae	(b) Cucurbitaceae
	(a) Lignin	(b) Cutin		(c) Liliaceae	(d) Brassicaceae
	(c) Suberin	(d) Sporopollenin			. ,
	C - 7	()	74.	In Cycas, pollination ta	kes place in
63.	Calyptra is derived from		-	(a) 3 celled stage	(b) 4 celled stage
٠٥.	(a) archegonia	(b) capsule		(c) 2 celled stage	(d) 1 celled stage
				(c) 2 celled stage	(d) I celled stage
	(c) antheridia	(d) columella	75	The bissess of south	
			75.	The bioassay of auxin i	
64.	Clamp connections' are o			(a) avena curvature te	st
	(a) Basidiomycetes	(b) Zygomycetes		(b) callus formation	
	(c) Ascomycetes	(d) Oomycetes		(c) culture of fungus	(d) seed dormancy
65.	Leaf abscission is caused	by	76.	Which of these stater	ments about Huntington's
	(a) ABA	(b) cytokinin		disease is true?	
	(c) auxin	(d) giberellin		(a)Genetic tests to de	etect the presence of the
	(-)	(, 8		3 1	Huntington's disease do
66.	What is the main cause	e for the extinction of		not exist at this time	Training corrs alsease as
00.	some species in tropical				ngton's disease is typically
	(a) Deforestation	(b) Afforestation		between birth and thr	_
	(c) Pollution	(d) Soil erosin			no effective treatment of
				Huntington's disease	
67.	Most accepted theory fo	r ascent of sap is			ease is caused by the
	(a) capillarity theory			expression of a recessi	ve allele
	(b) root pressure theory				
	(c) pulsation theory		77.	Which one is compone	ent of Ornithine cycle?
	(d) transpiration pull			(a) Ornithine, citrulline	and alanine
				(b) Ornithine, citrulline	e and arginine
68.	Which enzyme converts	glucose into alcohol?		(c) Amino acid are not	used
	(a) Zymase	(b) Diastase		(d) Ornithine, cnitrullir	
	(c) Invertase	(d) Lipase			
	(0)	(4) 1.6466	78.	Chromosome compler	nent with 2n - 1 is called
69.	Which of the following	is not the feature of	, 0,	(a) monosomy	(b) nullisomy
03.	gymnosperms?	is not the leature of			
	The state of the s	(b) Danamaial plants		(c) trisomy	(d) tetrasomy
	(a) Parallel ventation	(b) Perennial plants			
	(c) Distinct branches (lon	g and short branches)	79.		om one trophic level to
	(d) Xylem with vessels			another is	
				(a) 5%	(b) 10%
70.	Which of the following is			(c) 15%	(d) 20%
	contraction and nerve im	• • • • • • • • • • • • • • • • • • • •			
	(a) Ca ²⁺ ions	(b) Mg ²⁺ ions	80.	Small fish get stuck no	ear the bottom of a shark
	(c) Both (a) and (b)	(d) Fe ²⁺ ions		and derives its nutrit	ion from it. This kind of
				association is called as	
71.	The presence of divers	sity at the junction of		(a) antibiosis	(b) commensalism
	territories of two differe	•		(c) predation	(d) parasitism
	(a)bottle neck effect	(b) edge effect		(c) predation	(a) parasitism
		-	01	Which of the following	ris not vostigial in man?
	(c) junction effect	(d) Pasteur Effect	81.		is not vestigial in man?
70	to solidal to the state of	- fl t-		(a)Tail vertebrae	(b) Nails
72.	In which form does th	e rood transported in		(c) Nictitating membra	
	plants?	// X =		(d) Vermiform append	IX
	(a) Sucrose	(b) Fructose			
	(c) Glucose	(d) Lactose			

	sequences. Which of the				
	role in protein synthesis?		92.		
	(a) Introns	(b) Exons		(a) Java man	, ,
	(c) Both (a) and (b)	(d) None of these		(c) Handy man	rriage between normal visioned man and relind woman will produce which of the ving types of offspring? rmal sons and carrier daughters tourblind sons and carrier daughters tourblind sons and 50% carrier daughters tourblind sons and 50% carrier daughters tourblind sons and 50% carrier daughters to colourblind sons and 50% carrier ters seed chromosomes are also called to coentric (b) telocentric (coentric (d) None of the above to of the following is are grouped under terogams? giosperms (b) Gymnosperms (d) Both (a) and (b) terium divides after every 35 min., if a recontaining 10° cells per ml is grown, cell concentration per ml after 175 min. The fertilization occurs among (d) 32 x 10° (d) 32 x 10° (e) pryophytes (d) gymnosperms (d) gymnosperms (d) gymnosperms (d) gymnosperms (d) gymnosperms (d) Munch theory the glucose theory (b) Munch theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of species is mainly based on the following theory gical concept of the following theory gical concept of the following theory gical co
83.	The nubmer of hydro		93.		
	adenine and thymine in a				
	(a) two	(b) three		following types of offspri	
	(c) Four	(d) eight			
84.	The group of Anamniota	includes		(c)Colourblind sons and 5	50% carrier daughters
	(a) Reptiles and birds			(d)50% colourblind so	ons and 50% carrier
	(b) Birds and mammals			daughters	
	(c) Fishes an amphibians				
	(d) Reptiles and mammal	s	94.	L-shaped chromosomes a	are also called
				(a) acrocentric	(b) telocentric
85.	The excretory material of	f bony fish is		(c) sub-metacentric	(d) None of the above
	(a) urea	(b) protein			
	(c) ammonia	(d) amino acid	95.	Which of the following	is are grouped under
				phanerogams?	
86.	The leucocytes contain w	hich of the following in		(a) Angiosperms	(b) Gymnosperms
	large quantity?			(c) Pteridophytes	(d) Both (a) and (b)
	(a) Basophils	(b) Neutrophils			
	(c) Eosinophils	(d) Monocytes	96.		1.7
87.	During inspiration, the di	aphragm			per ml after 175 min.
	(a) expands	(b) shows no change		will be	
	(c) contracts and flattens			(a) 175 x10 ⁵	• •
	(d) relaxes to become do	me-shaped		(c) 48×10^5	(d) 32×10^5
88.	The function of pineal bo		97.		
	(a) lighten the skin coloui			(a) algae	
	(b) control sexual behavio			(c) angiosperms	(d) gymnosperms
	(c) regulates the period of	of puberty			
	(d) All of the above		98.		
89.	Synsacrum of fowl consis			(a) ABA theory	
	(a) 29 vertebrae	(b) 3 vertebrae		(c) Starch glucose theory	
	(c) 16 vertebrae	(d) single vertebrae		(d) Active K ⁺ transport th	eory
90.	Which of the following w	as formed in S Miller's	99.	Biological concept of spe	cies is mainly based on
	experiment?			(a) reproductive isolation	
	(a) Amino acids	(b) Nucleic acids			
	(c) UV radiations	(d) Microspheres			
				• •	
91.	Which of the following va	ariations are temporary		. ,	

(d) None of the above

100. In the treatment of waste water discharge,

treatment?

(a) Primary treatment

(b) Secondary treatment

which treatment stage involves biological

82.

A eukaryotic gene contains two kinds of base

and have nothing to do with the last or next

generation?

(a) Hereditary variations

(b) Discontinuous variations

(c) Environmental variations

Answer – Key

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