## **ZOOLOGY QUESTION BANK**

TDC - PART-I

#### **SUBSIDIARY**

(Non-Chordates, Cell Biology, Genetics and Evolution)

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### **MULTIPLE CHOICE QUESTIONS**



# UNIVERSITY DEPARTMENT OF ZOOLOGY

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#### ZOOLOGY SUBSIDIARY

1.	Paramecium has				
	(a) One nucleus	(b) Two nuc	eleus		
	(c) Three nucleus (d) Four nucleus				
2.	In Ascaris Penial setal ari	se from			
	(a) Cloace of male	(b) anus of	female		
	(c) Vulva of female	(d) None of	these		
3.	The causative agent of liv	er rot in shee	p is		
	(a) Degesia (b) Fasciola	(c) Taenia	(d) Sch	istosoma	
4.	The suicidal bag of Cell is	i			
	(a) Acrosome (b) Ly	sosome (c)	Nucleoso	me (d) P	olyri bosome
5.	In plasma membrane the	hydrophilic ei	nds of pho	ospholipids	molecules
	(a) Face protein molecule	(b) F	ace each	other	
	(c) Are not found	(d) h	ave not s	pecific end	
6.	Which of the following is b	ack cross			
	(a) TT $\times$ Tt (b) TT $\times$ tt	(c) tt × tt	(d) Tt ×	tt	
7.	In monohybrid cross the	e phenotypic	ratio of	dominant	and recessive
	characters in F2 generation	on is			
	(a) 1:2:1 (b) 3:1	(c) 9:1	(d) 9:3:	3:1	
8.	The functional unit in the	compound ey	e of praw	n is known	is
	(a) Stigma (b) Ocellus	(c) ommatic	lium (	(d) eye spot	t
9.	Prokaryotic Ribosomes a	re			
	(a) 30s (b) 50s	(c) 70 s	(d) 80s		
10.	Ribosomes help in				
	(a) Lipogenesis	(b) Protein synthesis			
	(c) Chrosome synthesis	(d) Glucose synthesis			
11.	Linked genes may be exp	ressed by			
	(a) Crossing over	(b) Polypoidy			
	(c) Gene mutation	(d) Segrega	ition		
12.	The exist pore of Scypha	is			
	(a) Ostia (b) Osculum	(c) Spongo	coel (	(d) Apopyle	
13.	Canal system of scypha is	5			

	(a) ascon type (b) Syconoid type (c) Luconoid type (d) Rhagon type					
14.	The number of tentacles in young medusa of obelia is					
	(a) 16 (b) 32 (c) 64 (d) 128					
15.	Ascaris is					
	(a) host (b) bisexual (c) dioecious (d) digenetic					
16.	Young stage of syconoid sponge is					
	(a) Coelobalstula (b) Paranchymule (c) Olynthus (d) Stomoblastula					
17.	Paleomon belongs to class					
	(a) Insecta (b) Chilopode (c) Crustace (d) Diplopoda					
18.	Unit membrance model of plasna membrance was proposed by					
	(a) Robertson (b) Nicolson					
	(c) Danielli & Davson (d) Singer & Nicolson					
19.	The main functions of contractile vacuole is					
	(a) Pumping out excess water (b) excretion					
	(c) Osmoregulation (d) respiration					
20.	"Origin of species" was written by					
	(a) Lamark (b) Charles Darwin (c) Spinger (d) Hugo-devries					
21.	Nematocyst is found in					
	(a) Coelentrata (b) Porifera (c) Annelide (d) Echinodermata					
22.	Mitochondrial DNA is					
	(a) rod-shape (b) Circular (c) Comma shaped (d) None of these					
23.	When two plants of red and yellow flowers are cross, plants with red					
	flowers appear in $F_1$ generation. The result justifies					
	(a) Law of segregation (b) Law of dominance					
	(c) Law of complete linkage (d) Law of independent assortment					
24.	When two or more characters do assert independently in $F_2$ generation, it					
	indicates that characters are not					
	(a) dominant (b) recessive (c) linked (d) lethal					
25.	Movement of food vacuole in paramecium along a definite path is known					
	as					
	(a) cytokinesis (b) Cyclosis (c) Endomix's (d) Circulation					
l						

26.	During con	iugation	how	many	paramonia	oro	formed	from	ono
20.	paramecium		HOW	Шапу	paramecia	are	ioiiileu	110111	one
	(a) 2		(	'c) 8	(c) 16				
27.	` '	` ,	· ·		` '				
21.	In scypha water current are produced by								
28.	(a) choanocyto (b) archacocyto (c) pincocytes (d) Theocytes  The various forms of a given gene are called								
20.			_	_		oto	(d) allala	•	
20	(a) genotype	`	•		(C) gain	еце	(d) allele	5	
29.	Emasculatio				val of atula				
	(a) removal		,		-				
	` '	·	,		val of sepals 				
30.	•		•		e called acro		. It is prod	duced I	ЭУ
	(a) Plasma membrane (b) A Golgi body								
	(c) Endoplasmic reticulum (d) Mitochondria								
31.	A species in	•		•	•				
	(a) Sympatri	c (I	o) Allo	patric	(c) Sibli	ngs	(d) Biosp	ecies	
32.	Charles Dan	win towar	d in a	ship for	5 yrs				
	(a) Alexande	er (I	o) Phili	ips (c	) Dusmania		(d) Beag	le	
33.	The theory of evolution is based on								
	(a) Mutation (b) reproductive isolation								
	(c) Sexual reproduction (d) All of the above								
34.	The theory of natural selection failed to explain the								
	(a) Survival of the fittest (b) arrival of the fittest								
	(c) over reproduction (b) balance in size of population								
35.	Darwin in his natural selection theory did not believe in the role of which								
	one of the following in organic evolution								
	(a) Parasites and predators as natural enemies								
	(b) survival of the fittest (c) Struggle for existence								
	(d) inheritan	ce of acq	uired c	haracte	rs.				
36.	In parameciı	ım, gene	tic in fo	ormation	is store in				
	(a) All the nuclei present (b) mitochondria (c) Micronucleus (d) Macronucleus								
37.	Phylum prote	ozoa is cl	assifie	d based	l on				
	(a) Size	(b) shap	e (	c) numb	er of nuclei	(d) lo	comotory	organ	

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38.	Which of these animals lack ventral nerve cord						
	(a) Pila (b) Earthworm (c) Leech (d) Cockroach						
39.	Organ of Bojanus in pila is						
	(a) Respiratory (b) Excretory (c) Digestive (d) Reproductive						
40.	The terrestrial species of Echinodermata is						
	(a) Brittle star (b) Star fish (c) Sea lily (d) None of these						
41.	The echinodermata are related to chordate by their similarity in the						
	development of						
	(a) Gut (b) Nervous system (c) Heart (d) Coelom						
42.	Miracidium is a larval stage in the development of						
	(a) Taenia solium (b) Fasciola hepatia (c) Ascaris (d) Filaria worm						
43.	Assembly of two sub units 40s & 60s of the ribosome is						
	(a) 100 s unit (b) 80s unit (c) 70 s unit (d) 90s unit						
44.	Smooth endoplasmic reticulum is the site of						
	(a) Protein synthesis (b) Carbohydrate synthesis						
	(c) amino acid synthesis (d) lipid synthesis						
45.	Which of the following is associated with the structure of Golgi complex						
	(a) Cristae (b) Cisternae (c) Annuli (d) Quantosome						
46.	Which is non-membranous organelle from the following						
	(a) Ribosome (b) Endoplasmic reticulam						
	(c) Nucleus (d) Chloroplast						
47.	Which of the following is not a component of the nucleus?						
	(a) Chromosome (b) Nucleolus (c) Cytoplasm (d) Nuclear envelop						
48.	Characteristic features of Echinodermata is						
	(a) They are triploblastic (b) They have a true coelom						
	(c) Fertilization is external (d) All of these						
49.	Sympatric speciation develops reproductive isolation without						
	(a) geographical barrier (b) barrier to mating						
	(c) barrier to gene flow (d) genetic change						
50.	Which is fresh water sponge						
	(a) Scypha (b) Spongilla (c) Leucosolenia (d) None of these						

51.	A short length of DNA molecule has 80 thymine and 80 guanine. The total					
	number of nucleotides in the DNA fragment is					
	(a) 160 (b) 40 (c) 320 (d) 640					
52.	Cell membrane is made up of carbohydrate fat and protein.					
	(a) All of three occur in equal proportion					
	(b) Lipid are in less proportion					
	(c) Carbohydrates are less proportion					
	(d) Proteins are in less proportion					
53.	According to fluid mosaic model, the plasma membrane					
	(a) has extrinsic and intrinsic protein (b) It is a semifluid structure					
	(c) Is selective permeable (d) All of the above					
54.	Z-DNA have a					
	(a) Double helical nature (b) Zig-Zag appearance					
	(c) Uracil base (d) Single stranded nature					
55.	Which of the following help in anchorage and defence of parmeciun					
	(a) nematocyst (b) mucocyst (c) trichocyst (d) Cilia					
56.	When a cluster of genes show linkage behavior they					
	(a) do not show a chromosome map					
	(b) show recombination during meiosis					
	(c) do not show independent assortment					
	(d) induce cell division					
57.	Left handed DNA is					
	(a) A-DNA (b) B-DNA (c) Z-DNA (d) C-DNA					
58.	By which process misincorporated base can change into a permanent					
	mutation					
	(a) Replication (b) Transcription (c) Translation (d) Transposition					
59.	Point mutation involves					
	(a) deletion (b) insertion (c) duplication (d) change in single base pair					
60.	Gene mutation occur at the time of					
	(a) DNA repair (b) DNA-replication					
	(c) Cell division (d) RNA transcription					

61.	Head, foot and visceral mass this combination of characters is diagnostic
	of
	(a) Echinodermata (b) Arthopoda (c) Mollusca (d) Annelida
62.	Devil fish is the common name of
	(a) Sepia (b) Aurelia (c) Octopus (d) Silver fish
63.	Which among following having open circulatory system
	(a) Arthopoda (b) Mollusca (c) Annelida (d) Coelentrata
64.	In earthworm clitellum occurs between
	(a) Segment 14-15-16 (b) Segment 13-14-15
	(c) Segments 15-16-17 (d) Segments 12-13-14
65.	The excretory units of annelids are
	(a) Uriniferous tubule (b) Nephridia
	(c) Flane cell (d) Nephrostome
66.	The mode of respiration in earthworm is
	(a) pulmonary (b) Sub-cutaneous (c) gills (d) Cutameous
67.	Redia larva is of
	(a) Taenia solium (b) Fasciola hepatica (c) Planaria (d) Ascaris
68.	In the life cycle of liver fluke the sheep get infection when they ingest
	(a) Metacercaria (b) Miracidia (c) Sporocyst (d) redia
69.	Which one of the following is filter feeder
	(a) Amoeba (b) Trypnosoma (c) Monocystis (d) Paramecium
70.	In Prawn, Statocyst is present in
	(a) antennules (b) antenna (c) mandible (d) rostrum
71.	The immage formed in the compound eye in bright light is
	(a) Superposition (b) mosaic image
	(c) inverted image (d) distorted image
72.	Body wall of Ascaris lacks
	(a) muscle (b) longitudinal muscle (c) circular muscle (d) both b and c
73.	The first larva formed in liver fluke is
74.	(a) redia (b) sporocyst (c) miracidium (d) cercaria According to law of segregation in monohybrid cross the genotypic ratio in F2 generation is
	(a) 1:2:1 (b) 3:1 (c) 1:3 (d) 2:1:3

75.	An isolated g	ene is attac	hed to a	plasmi	d with the he	lp of enzyme	
	(a) Polymera	se (b) E	Endonucl	ease	(c) Ligase	(d) Transferase	
76.	The enzyme	endonuclea	se is use	ed for			
	(a) Gene isol	ation	(b) Ge	ene rec	ombination		
	(c) Gene syn	thesis	(d) Pro	otein sy	ynthesis		
77.	Which of the following correctly represent centraldogma						
	(a) DNA $\rightarrow$ R	NA → Prote	in (b) RN	$IA \to D$	NA → Proteir	า	
	(c) DNA ≠RI	NA → Protei	n	(d) Pr	otein→ DNA-	→ RNA	
78.	i- gene is						
	(a) Regulator	y gene	(b) Op	erator	gene		
	(c) Represso	r gene	(d) Str	ructura	l gene		
79.	When a cros	s is made be	etween n	ormal	male and car	rier female	
	(a) All boys v	vill be colour	ed blind	(b)	All girls will b	oe coloured blind	
	(c) 50% boys	will be colo	ured blir	nd (d) !	50% girls will	be coloured blind	
80.	Crossing over occurs  (a) At chaismata between sister chromatids  (b) At chaismata between non-sister chromatia  (c) At any where between non-sister chromatia  (d) At anywhere between sister chromatids						
81.	Golgi body is	produced b	y				
	(a) cisternae	(b) Vacuole	es (c) Ve	sicles	(d) Nuclear N	/lembrane	
82.	Which of the (a) Rough su	•			•	n synthesis	
	(b) Smooth s	urface endo	plasmic	reticulu	ım		
	(c) RNA		(d) DN	lΑ			
83.	Apple snail is	common n	ame of				
	(a) Sepia	(b) Unio	(c) Pil	a	(d) Octopus		
84.	Ospharadium	n is to test th	e purity	of wate	er in		
	(a) Pila	(b) Starfish	(c) Ho	usefly	(d) Leech		
85.	The type of s	ugar in DNA	A is				
	(a) triose	(b) tetrose	(c) Pe	ntose	(d) Herose		
86.	According to (a) descent v				s ıtural selectio	n	
	(c) Survial of	fittest		(d) irre	eversible cha	nge	

l						
87.	The cell involved	J		nthesis do r	ot posses this	
	organelle on endop					
	(a) Mitochondrion	` '		paratus (d) L	.ysosome	
88.	In human which ce					
	(a) Lysosome	` ,	(c) Monocyte	` ,	•	
89.	Who proposed that	new cells aris	se only from th	ne pre-existin	g cell	
	(a) Mohl	(b) Virchow	(c) Brown	(d) H	aeckel	
90.	The smallest living	cells with cell	wall are			
	(a) Viroids	(b) Algae	(c) Bacteria	(d) Mycopla	sma	
91.	The cells organelle	is responsib	le for extractir	ng energy fro	m carbolydrate	
	to form energy ATF	o is				
	(a) Lysosome	(b) Ribosom	e (c) Ch	loroplast (d)	Mitochondrion	
92.	Pick the incorrect statement					
	(a) Mycoplasma is a wall less microorganism					
	(b) Pill and fimbriae are mainly involved in motality of bacterial cells					
	(c) The bacterial cell wall is made up of peptidoglycan					
	(d) Cyanobacteria l	ack flagellate	d cell			
93.	As per fluid mosac model plasma membrane is composed of					
	(a) Phospholipids a	ınd integral pr	oteins			
	(b) Phospholipids e	extrinsic and ir	ntrinsic protein			
	(c) Phospholipids a	nd hemicellul	oses			
	(d) Phospholipids a	and Oligosacc	harids			
94.	Pick the correct sta	tement regard	ding plams me	mbrane		
	(a) Lipids are arranged in a bilayer with polar heads					
	(b) Na+ and K+ ions more across cell membrane by passive transports					
	(c) Fluid mosaie model was proposed by singer and Nicolson					
	(d) Proteins make ι	• •	, ,			
95.	This structure betw	•			nsport pathway	
	(a) Plasmalemma	(b) Plasmod	esmata (c) Pl	astiquinone	(d) ER	
96.	The tendency of ar	offspring to r	esemble its pa	arent is know	n as	
	(a) Variation	(b) Heridity	(c) Resemble	ence (d) Inhe	ritance	
97.	Who is known as th	ne "Father of (	Geneties"			

	(a) Morgan (b) Mendel (c)	) Watson	(d) Bateson				
98.	98. The alternate form of a gene is						
	(a) Alternate type (b	b) Recessive character					
	(c) Dominent Charactert (d	(c) Dominent Charactert (d) Allele					
99.	The genotypic ratio of a mono	onhybrid cr	oss is				
	(a) 1:2:1 (b) 3:1 (c)	) 2:1:1	(d) 9:3:3:1				
100.	The crossing of F1 to either o	of the paren	ts is known as				
	(a) Test cross (b) Back	cross	(c) F1 cross (d) All of the above				
101.	Which of the following s segregation"?	tatements	is true regarding the law of				
	(a) Law of segregation is the	law of purit	v of genes				
	(b) Alleles separate from each	•					
			gregation of chromosomes during				
	meiosis						
	(d) All of the above						
102.	Homozygosity and heterozyg	osity of an	individual can be determined by				
	(a) back cross (b) self-fe	ertilization (	(c) Test cross (d) All of the above				
103.	An exception to Mendel's law is						
	(a) Independent assortment	(b) Lin	ıkage				
	(c) Dominance	(d) Pu	rity of gametes				
104.	Pea plants were used in Mendel's experiments because						
	(a) They were cheap	(b) Th	ey had contrasting characters				
	(c) They were available easily (d) All of the above						
105.	The smallest unit of genetic	material w	hich produces a phenotypic effect				
	on mutation is						
	(a) Muton (b) Gene (c)	) Recon	(d) Nucleic acid				
106.	Mendel's findings were redisc	covered by					
	(a) correns (b) De vries (c)	) TS Cherm	nark (d) All of the above				
107.	Alleles are						
	(a) Alternate forms of genes		(b) Linked genes				
	(c) Chromosomes that have o	crossed ove	er (d) Homologous chromosomes				

108.	·	gene is	supres	ssed by the activity of a non-allelic	
	gene it is known as				
	(a) P seudo - dominance			vpostasis	
	(c) Epistasis		(d) Ind	complete dominance	
109.	Cystic fibrosis is				
	(a) Sex-linked recessive d	lisorder			
	(b) Autosomal dominant disorders				
	(c) Autosomal recessive d	lisorder			
	(d) Sex-linked dominant d	isorder			
110.	9:7 ratio is the F2 generat	ion repr	esent		
	(a) Incomplete dominance	;	(b) Cc	o-dominance	
	(c) Epistasis		(d) Co	omplementary interaction	
111.	A small amount of lethal i	mutatior	ı is alv	vays present in the population due	
	to				
	(a) Positive selection			(b) Negative selection	
	(c) Frequency - dependen	t selecti	ion	(d) Mutation-selection balance	
112.	If a plant with genotype	AaBb is	s self f	fertilized, the probability of getting	
	AABB genotype will be (A and B are not linked)				
	(a) 1/2 (b) 1/4	(c) 1/8		(d) 1/16	
113.	How many phenotypes of Alleles $ A B_1$ ?	an occı	ur in t	he human blood group ABO with	
	(a) 2 (b) 3	(c) 4		(d) 1	
114.	The geometrical device th	at helps	s to fin	d out all the possible combinations	
	of male and female gametes is known as				
	(a) Bateson square	(b) Me	ndel s	quare	
	(c) Pumett square	(d) Me	ndel's	cube square	
115.	Which term represents a p	oair of c	ontrasi	ting characters?	
	(a) Heterozygous	(b) He	mozyg	gous	
	(c) Codominant genes	(d) Alle	elomor	phs	
116.	Which one is used for kno (a) Degree of evolution (c) Proportion between ac (d) Hardy Weinberg equat	(b) Ge quired v	netic d		

117.	According to De Varies theory, evolution is					
	(a) Jerky	(b) discontinuous				
	(c) Continuous and smooth	• •				
118.	Mutation may be described as					
	(a) Continuous genetic variation	(b) Phenotypic change				
	. ,	on (d) Change due to hybridization				
119.	The theory of use and disuse was					
	(a) Stebbins (b) Lamarck (c) Aris	stotle (d)Darwin				
120.	The evolution of a species is	based upon the sumtotal of adaptive				
	changes preserved by					
	(a) natural selection (b) isolation	(c) speciation (d) human conservation				
121.	Genetic drift is on account of					
	(a) Variation	(b) Mutation				
	(c) increases in population	(d) decrease in population				
122.	According to Neo-Darwinism, nat	ural selection operates through				
	(a) Fighting between organisms	(b) Variations				
	(c) Killing weaker organism	(d) Differential reproduction				
123.	Sympatic speciation develops rep	productive isolation without				
	(a) Geographic barrier	(b) Barrier to mating				
	(c) Barrier to gene flow	(d) Genetic change				
124.	Quick change in phenotypes in a	small based of colonizer is called				
	(a) Founder effect (b) Genetic b	oottleneck (c) Genetic drift (d) Gene flow				
125.	Genetic drift is found in					
	(a) Small population with or without mutated genes					
	(b) Large population with random	mating				
	(c) Plant population	(d) Animal population				
126.	Which as related to reproduction	isolation				
	(a) genetic isolation	(b) temporal isolation				
	(c) behavioural isolation	(d) All of these				
127.	In which condition gene ratio rem	·				
	(a) Gene flow (b) mutation (c) ra	ndom mating (d) sexual selection				
I						

128.	Lamarck theory of organic evolution is usually known as				
	(a) Natural selection (b) Inheritance of acquired characters				
	(c) Descent with charge (d) Continuity of germ plasm				
129.	A species inhibiting different geographical area is known as				
	(a) Sympatric (b) allopatric (c) Sibling (d) biospecies				
130.	Balancing selection is concerned with the successful reproduction of				
	(a) Homozygous recessive (b) Homozygous individual				
	(c) Heterozygous individual (d) All of the above				
131.	The earthworm is placed under the group				
	(a) Polychaeta (b) Hirudinea (c) Oligochaeta (d) Crustacea				
132.	The typhlosole in earthworm is related to				
	(a) respiration (b) excretion (c) absorption (d) reproduction				
133.	The most effective organ for food digestion in earthworm				
	(a) mouth (b) Buccal cavity (c) Pharynx (d) Stomach				
134.	What is present on the 5th to 9th segments of the earthworm body				
	(a) Clitellum (b) Peristomium				
	(c) Female genital pore (d) Spermathecal aperture				
135.	Which is the female genital pore present in earthworm				
	(a) 16th segment (b) 18th segment				
	(c) 14th segment (d) 9th segment				
136.	In arthropods, the coelom is reduced to the				
	(a) Cavities (b) gonads (c) limbs (d) joints				
137.	In arthropods the growth is accompanied by the process of				
	(a) moulting only (b) ecdysis only (c) mitosis (d) moulting and ecdysis				
138.	Crayfish, lobsters and shrimps are included under subphylum				
	(a) annelids (b) Arachnida (c) crustacean (d) Fishes				
139.	Flagellated cells which line the spongocoel in porifera is known as				
	(a) Oxtia (b) meseuchymal cells (c) Choanocytes. (d) Oscula				
140.	Which of the following is not a characteristics of the phylum Arthopoda				
	(a) Metameric segmentation (b) Jointed appendages				
	(c) Chitinous exoskeleton (d) Parapodia				

141.	This is an example of belaterally symmetrical and triplobalstic animal
	(a) Cnidaria (b) Sponges (c) ctenophore (d) Round worm
142.	Phylum Annelida is not characterized by (a) Segmentation (b) closed circulatory system
	(c) Ventral nerve cord (d) Pseudocoelom
143.	Which contain notochord in the embryonic stage?
	(a) Non-chordate (b) Vertebrates
	(c) All chordates (d) Some of the chordate
144.	A characteristic features, which is present only in the phylum coelenterate
	is
	(a) nematocyst (b) Flame cells (c) hermaphrodite (d) spicules
145.	Cnidaria which exhibit only polypstage
	(a) Cuboza (b) Scyphozoa (c) Anthozoa (d) Hydrozoa
146.	In Flatworm, excretion is performed by
	(a) Protonephridia (b) Flame cells (c) Green Gland (d) Malpighian tubule
147.	The group of mollusks which posses eyes similar to vertebrates
	(a) bivalvia (b) gastropoda (c) Cephalopoda (d) Pelecypoda
148.	Tube feet are found in
	(a) Cuttle fish (b) Cray fish (c) Star fish (d) Jelly fish
149.	In Ascaris
	(a) Male tail is curved (b) Female tail is curve
	(c) Both male and female tail is curved (d) None of these
150.	When a fresh water protozoa kept in marine water
	(a) It will die (b) contractile vacuole disappear
	(c) There is no change (d) None of these
151.	The number of contractile vacuole in paranecilum is
	(a) 1 (b) 2 (c) 3 (d) 4
152.	The term gene was coined by
	(a) Mc Clintock (b) Morgan (c) Johnsen (d) De Duve
153.	Functional unit of gene that specifies synthesis of one polypeptide is
154.	(a) Codon (b) Cistron (c) Recon (d) Muton Smallest gene affected by mutation is
	(a) Muton (b) Cistron (c) Recon (d) Exon
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155.	Intron is part of DNA which
	(a) Codes for protein synthesis (b) Helps in joining pieces of DNA
	(c) Does not code for protein synthesis (d) initates transcription
156.	In split gene, the coding sequences are called
	(a) Introns (b) Operons (c) Exons (d) Cistrons
157.	Gene capable of moving from one chromosomes to another?
	(a) cosmid (b) Exonic gene (c) Transposon (d) Mutagene
158.	DNA elements, which can switch their position, are called
	(a) Exons (b) Introns (c) Cistrons (d) Transposons
159.	A distinct mechanism that usually involves a short segment of DNA with
	remarkable capacity to move from one location in a chromosome to
	another, this is called
	(a) DNA replication (b) DNA transposition
	(c) DNA hybridization (d) DNA recombination
160.	Transformation experiment was first performed on which of the following
	bacteria?
	(a) E.Coli (b) Salmonella (c) Pasteurella (d) Diplococus pneumonia
161.	DNA is mainly found in
	(a) Nucleus only (b) Nucleus and cytoplasm
	(c) Cytoplasm only (d) Nucleus and cell wall
162.	In DNA helix, cytosine is paried with guanine by
	(a) Covalent bond (b) phosphate bond
	(c) Two hydrogen bonds (d) Three hydrogen bonds
163.	Select the specific base pairs of DNA
	(a) Adenine and cytosine (b) Adenine and thymine
	(c) Guanine and adenine (d) Guanine and uracil
164.	The number of hydrogen bonds between adenine and thymine in a DNA
	molecule are
	(a) Two (b) Three (c) Four (d) Eight
165.	DNA synthesis can be specially measured by estimating the incorporation
	of radio labeled
	(a) Uracil (b) Adenine (c) Thymidine (d) Deoxyribose sugar

166.	In DNA, when AG-CT occur, their associate is as per which of the
	following pair?
	(a) AG-CT (b) AC-GT (c) AT-GC (d) AGC-GCT
167.	Genes are made up of
	(a) Histones (b) Lipoprotein (c) Hydrocarbons (d) Polynucleotides
168.	Nucleoside is
	(a) Sugar + Phosphate (b) Purine/pyrimidine + sugar
	(c) Purine/pyrimidine (d) Purine/pyrimidine+sugar+phosphate
169.	A Nucleotide is
	(a) Base + Sugar (b) Base + Phosphate
	(c) Sugar + Phosphate (d) Base + Sugar + Phosphate
170.	In a polynucleotide strand of DNA nucleotides are attached by
	(a) Hydrogen bonds (b) Covalent bonds
	(c) Vander Waal force (d) Electrovalent bond
171.	Which of the following statement regarding a double helical molecule of
	DNA is true?
	(a) Each strand is identical (b) Each strand replicates itself
	(c) Bases are perpendicular to the axis
	(d) All hydroxyl groups are involved in linkage
172.	If the sequence of based in DNA is ATTCGATG then the sequence of
	bases in its transcript will be
	(a) CAUGGAAU (b) UAAGCUAC (c) GUAGCUUA (d) AUUCGAUG
173.	How many base pairs are present in one turn of DNA
	(a) 10 (b) 9 (c) 11 (d) 12
174.	The usual method of DNA replication is
	(a) Replication (b) Dispersive (c) Transcription (d) Semi-Conservative
175.	Which of the following is true for DNA helicases?
	(a) DNA helicase hydrolyse ATP
	(b) DNA helicases are ATP dependent unwinding enzymes
	(c) Promote separation of two parental strand and establish replication
	focks
	(d) All of these
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176.	Which of the following enzymes is used to join bits of DNA?				
	(a) Ligase (b) Primase (c) Endonuclease (d) DNA polymerase				
177.	Which purine base is found in RNA?				
	(a) Cytosine (b) Guanine (c) Thymine (d) Uracil				
178.	HIV has a protein coat and a genetic material which is				
	(a) s-s DNA (b) s-s RNA (c) d-s DNA (d) d-S RNA				
179.	RNA retrovirwses have a special enzymes that				
	(a) Translates host DNA (b) Disintegrates host DNA				
	(c) Polymerises host DNA (d) Transcribes viral RNA to cDNA				
180.	In Rous sarcoma virus information flow in				
	(a) DNA $\rightarrow$ Protein $\rightarrow$ RNA (b) DNA $\rightarrow$ RNA $\rightarrow$ Protein				
	(c) RNA $\rightarrow$ DNA $\rightarrow$ Protein (d) RNA $\rightarrow$ DNA $\rightarrow$ RNA $\rightarrow$ protein				
181.	Genes connected with cancers are				
	(a) cancer genes (b) carcinoma genes				
	(c) oncogenes (d) sex linked genes				
182.	Which of the following step of translation does not consume a high every				
	phosphate bond?				
	(a) Translocation (b) Amino acid activation				
	(c) Peptidyl transfer reaction (d) Aminoacyl + RNA binding to A-site				
183.	Jacob and Monad studied lactose metabolism in E.coli and proposed				
	operon concept.				
	(a) Prokaryotes (b) Eukaryotes (c) Protozoans (d) All of these				
184.	Genes that are involved in turning on or off the transcription of a set of				
	structural genes are called				
	(a) operators genes (b) Redundant genes				
	(c) Regulatory genes (d) Polymorphic genes				
185.	The lac operon is an example of				
	(a) Drabinose operon (b) Inducible operon				
	(c) Represible operon (d) Overlapping genes				
186.	In operon model Regulator gene functions as				
	(a) Represser (b) Regulator (c) Inhibitor (d) All of these				
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187.	In E.coli, during lactose metabolism repressor binds to		
	(a) Regulator gene (b) promoter gene		
	(c) operator gene (d) structural gene		
188.	A gene which synthesizes a represser protein is		
	(a) operator gene (b) structural gene (c) promoter gene (d) Regulator ge	he	
189.	In E.Coli, lac operon is induced by		
	(a) Lactose (b) Promoter gene (c) β-glucotosidase (d) I-gene		
190.	The second messenger inside a cell is		
	(a) ATP (b) ADP (c) NADP (d) Cyclic AMP		
191.	Exon part of MRNA, has code for		
	(a) Protein (b) Lipid (c) Phospholipid (d) Carbohydrate		
192.	Which of the following in a terminantion codon for the biosysthesis of protein?		
	(a) UAA (b) UAG (c) UGA (d) All of these		
193.	Out of 64 codons, 61 codons code for 20 types of amino acid, It is called		
	(a) Wobbling of codon (b) Overlapping of genes		
	(c) Universality (d) Degeneracy		
194.	The codon causing chain termination are		
	(a) TAG, TAA, TGA (b) GAT, AAT, AGT		
	(c) AGT, TAG, UGA (d) UAG, UGA, UAA		
195.	Which of the following serves as terminal codon?		
	(a) AUG (b) GCG (c) UAG (d) AGA		
196.	The genes are responsible for the growth and differentiation in an organism through the regulation of		
	(a) Translocation (b) Transformation		
	(c) Transduction and translation (d) Translation and transcription		
197.	Transcription takes place in		
	(a) Matrix (b) Cytosol (c) Nucleus (d) Cytoplasm		
198.	Transcription is a process in which		
	(a) RNA Synthesize (b) Protein Synthesize		
	(c) Assembly of ribosomes and Golgi bodies		
	(d) MRNA is formed from DNA		

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199.	MRNA is synthe	esized on D	NA temp	o late	in whic	ch direction	on?	
	(a) 2'-4' (b)	) 3'-5'	(c) 5'-3'		(d) 7'-9	9'		
200.	Fertilization in scypha is							
	(a) External (b)	) Internal	(c) Bises	xual	(d) Ho	loblastic		
201.	Phasmid are ter	m associat	ted with					
	(a) Taenia (b)	) Filaria wo	rm (d	c) As	caris	(d) None	of these	
202.	Green gland is found in							
	(a) Protein (b)	) Cockroac	h (d	c) Bu	tterfly	(d) Scorp	oion	
203.	Life originated in	ո the past բ	period of	abou	t			
	(a) 2.5 - 2.8 billio	on years	(b) 4 - 5	billio	n years	6		
	(c) 3.3 - 3.5 billio	on years	(d) 2.5 -	3.2 k	oillion y	ears		
204.	Theory of sponta	aneous ge	neration	was f	irst rep	orted exp	perimentally	by
	(a) Sapllanzani	(b) Vo	n Helmo	nt	(c) Re	di (c	l) Pasteur	
205.	Which scientist	decisively	proved	that I	ife on	present (	earth can o	rginate
	only from pre-ex	kisting life						
	(a) Louis Pasteu	ır (b) Ch	arles Da	rwin (	(c) Wei	smann (d	l) Boxmann	
206.	Chemical theory for origin of life was given by							
	(a) Stanley Miller		(b) Opai	rin an	ıd Hald	one		
	(c) Spallanzani		(d) Louis Pasteur					
207.	Russian scientist who proposed the theory of origin of life							
	(a) Oparin (b)	) Haldone	(c) Mille	r	(d) Fo	X		
208.	Planet nearest to sun is							
	(a) Earth (b)	) Moon	(c) Merc	cury	(d) Ma	ırs		
209.	Earth originate in the past period of about							
	(a) 4.5 billion years		(b) 8 billion years					
	(c) 3 billion year	S	(d) 1 bill	lion y	ears			
210.	Gaseous mixture used by miller for synthesis of amino acid through heat							
	and electric discharge included							
	(a) Methane, ammonia, hydrogen and water vapours							
	(b) Methane, an	nmonia, nit	rogen an	nd wa	ter vap	ours		
	(c) Methane, niti	rogen, hyd	rogen an	ıd wa	ter vao	purs		
	(d) Ammonia, ca	arbon, diox	ide, nitro	gen a	and wa	ter vapou	irs	
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211.	Miller and urey's experime (a) Oxygen, ammonia, me (b) Hydrogen, ammonia, e (c) Hydrogen, oxygen, nitr (d) Hydrogen, ammonia, r	ethane and water rogen and water
212.	The spark-discharge exp	periment to test chemical evolution of life was
	designed by	
	(a) Oparin and Haldane	(b) Urey and Miller
	(c) Jacob and Monad	(d) Dixon and Jolley
213.	The most primitive cell li	ke chemical aggregates capable of growth and
	division were	
	(a) Chemoautotrophs	(b) Eobionts
	(c) Procaryotes	(d) Microspheres
214.	First organisms to evolve	on the earth were
	(a) Saprotrophs	(b) Chemoheterotrophs
	(c) Phtoautotrophs	(d) Chemo autotrophs
215.	Life originated/origin of life	e took place in
	(a) Life (b) Soil	(c) mountains (d) water
216.	Lamarck's theory of evolu	tion is also called
	(a)Theory of special creat	ion (b) Inheritance of acquired characters
	(c) Survival of the fittest	(d) Theory of spontaneous generation
217.	Basis of Lamarckism	
	(a) Origin of species	(b) Inheritance of acquired characters
	(c) Population dynamics	(d) Struggle for existence
218.	Homologous organs are (a) Similar in behaviour (c) Similar in function	(b) Similar in origin (d) Similar in development
219.	An important evidence of	the organic evolution is occurance of
	(a) Analgous organs only	(b) Analogous and vestigid organs
	(c) Homologous and Anal	ogous (d) Homologous and vestigial organs
220.	Which of the following are (a) Wings of bat and wing (b) Wings of bird and wing (c) Wings of bird and hand (d) Nails of human being a	s of cockroach gs of insect d of man
221.	Which of the following exh	nibit homology?

	(a) Paddles of whale and hands of man
	(b) Wings of pigon and wings of bat
	(c) Wings of birds and wings of butterfly
	(d) None
222.	Wings of pigeon, mosquito and bat show
	(a) Atavism (b) Mutation (c) Divergent evolution (d) Convergent evolution
223.	Vestigial organs can be explained as
	(a) Helpful in location (b) Characteristics of birds
	(c) Not of much use today (d) Common in many groups
224.	Which of the following is the correct group of vestigial organs in man?
	(a) Appendix, coccyx, ear muscles and elbow joint
	(b) Wisdom teeth, coccyx, body hair and ear muscles
	(c) Nictitating membrane, ear muscles, eyelids and coccyx
	(d) Wisdom tooth, body hairs, nitiating membrane and vermiform appendix
225.	Which of the following set includes all vestigial structure of man
	(a) coccyx, appendix, ear muscle
	(b) vermiform appendix, body hair, cochlea
	(c) coccyx, wisdom teeth, patella
	(d) Ear muscles, attas, body hair
226.	Which of the following is not vestigial in human
	(a) coccyx (b) Nail (c) Third molar (d) Abdomen
227.	Archaeopteryx is called a connecting link, why?
	(a) It showed combined characters of reptiles and birds
	(b) It showed combined characters of birds and mammals
	(c) It showed combined characters of chordates and non-chordates
228.	(d) None of these In general in the development history of mammalian heart, it is observed that it passes through a two chambered fish-like heart, three chambered frog-like heart and finally four chambered stage. To which hypothesis can the above cited statement be approximated
	(a) Mendelian principle (b) Hardy - weinberglaw
	(c) Lamark's principle (d) Biogenetic law
229.	"Ontogeny repeats phylogeny" this is expressed by
	(a) Natural selection theory (b) Recapitulation theory

230.	(c) Mutation theory (d) The Which of the following eras, period when life had not origin	in geological time-scal	•
		(c) Palaeozoic	(d) Archaeozoic
231.	Which of the following is the a		(4) / (10114002010
	_	(c) Devonian	(d) cambium
232.	Ancestral amphibians were te	` '	. ,
	(a) Jurassic period	•	•
	(c) Devonian period		
233.	In which of the following era,		
	as age of reptiles?	·	
	(a) Coenozoic era	(b) Archaezoic era	
	(c) Palaeozoic era	(d) Mesozoic era	
234.	Dinosaurs became extinct in		
	(a) Triassic period	(b) Permian period	
	(c) Cretaceous period	(d) Jurassic period	
235.	The geological era extending	from present to 65 milli	on years ago is called
	(a) Proterozoic era	(b) Palaeozoic era	
	(c) Coenozoic era	(d) Mesozoic era	
236.	Mamals are supported to hav	e evolved about how m	any years ago
	(a) 1 million (b) 75 million (c)	) 220 million (d) 375 mi	llion
237.	According to geological time	scale, Homo sapiens ev	olved during
	(a) Eocene (b) Pilocene (c)	) Pleistocene (d) Oligoc	ene
238.	The earliest fossil form, in the	phylogeny of horse is	
239.	(a) Eofippus (b) Merychippus Darwin finches are related to (a) Fossil (b) Embryology	• • • • • • • • • • • • • • • • • • • •	vidences?
240.	Which theory was proposed by	y Lamarck?	
	(a) Germ plasm theory (b	) Acquired chromosome	es are inherited
	(c) Acquired characters are in	nherited (d) Continuity o	f life
241.	Who prepared Germ plasm t disuse?	heory against Lamarck'	s principle of use and
	(a) Darwin (b) Nuttal (c)	) Weismann (d) de vari	es
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242.	Who was the scientist, who cut the tails of mice for several generations
	and yet found that the characteristics of taillessness was not inherited?
	(a) Darwin (b) Bateron (c) Lamarck (d) Weismann
243.	What is the basis of Darwin's natural selection?
	(a) Use and disuse of organs (b) Inheritance of acquired characters
	(c) variations (d) Prodigality, struggle for existence, survival of the fittest
244.	Which of the following theories was not given by Darwin?
	(a) struggle for existence (b) Natural selection
	(c) survival of the fittest (d) Genetic drift
245.	The idea of "survival of the fittest" was proposed by
	(a) Wallace (b) Darwin (c) Haeckel (d) Herbert spencer
246.	Pangenesis hypothesis was propounded by
	(a) Weismann (b) Gatton (c) Wagner (d) Darwin
247.	Which of these was the contribution of de varies?
	(a) Theory of mutation (b) Law of dominance
	(c) Theory of natural selection (d) Law of segregation
248.	de varies pioneered theory of mutations to explain mechanism of
	evolution. Material on which he had experimented was
	(a) Fruit fly (b) Garden pea
	(c) Evening prime rose (oenothera lamarckianaa) (d) China rose
249.	Which of the following is the main category of mutation?
	(a) Genetic mutation (b) Zygote mutation (c) Sometic mutation (d) All of these
250.	Phenomenon of 'Industrial Melanism' demonstrates
	(a) Natural selection (b) Induced mutation
	(c) Geographical selection (d) Reproduction isolation
251.	H.J.Muller was awarded Nobel prize for his
	(a) Discovery that ionizing radiations can induce gene mutation
	<ul><li>(b) work on gene mapping in Drosphilla</li><li>(c) Efforts to prevent the use of nuclear weapons</li></ul>
	(c) Discovery that chemicals can induce gene mutation
252.	Discontinuous variations are
	(a) Mutations (b) Acquired characters
	(c) Essential features (d) Non-essential feature
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253.	Which of the following term is not concerned with genetic recombination in bacteria?
	(a) Translation (b) Transduction (c) Transformation (d) Conjugation
254.	
2011	(a) Random change is gene frequencies
	(b) Not common with inbreeding
	(c) Orderly change in gene frequencies
	(d) Produces great fluctuations in large populations
255.	Genetic drift operates in
	(a) Small isolated population (b) Large isolated population
	(c) Slow reproduction population (d) Fast reproductive population
256.	Genetic drift operates only in
	(a) Island populations (b) Smaller populations
	(c) Large populations (d) Mendelian population
257.	Most striking example of point mutation is found in disease called
	(a) Thalassaemia (b) Night blindness
	(c) Down's syndrome (d) Sickle cell anaemia
258.	The age of the fossil of Dryopithecus on the Geological time scale is
	(a) $75 \times 10^6$ years back (b) $50 \times 10^6$ years back
	(c) $25 \times 10^6$ years back (d) $20 \times 10^6$ years back
259.	Ape and hominids evolved from
	(a) Australpithecus (b) Dryopithecus (c) Homo habiles (d) Homo erectus
260.	Which fossil man has been known from Siwalic hill in India?
	(a) Pithecanthropus (b) Ramapithecus
	(c) Sinanthropus (d) Zinjanthropus
261.	Which of the following was the transitional stage between ape and
	humans?
	(a) Homo habilis (b) Homo erectus (c) Australopitheus ramidus (d) Both (b) and (c)
262.	Evgene Dubois discovered fossil of man from
	(a) Java (b) Africa (c) China (d) France
263.	Maximum fossils of prehistoric man have been recovered from which
	continent?

	(a) Asia (b) America (c) Africa (d) Europe
264.	The correct sequence of stages in the evolution of modern man (Homo
	sapiens) is
	(a) Neanderthal man, Australopithecus, cro-magnon man, Homo erectus,
	Modern Man
	(b) Australopithecus, Homo erectus, Neanderthal Man, Modern Man
	(c) Homo erectos, Australopithecus, Neaderthal man, cro-magnon man
	modern man
	(d) Australopithecus, Nean derthal man, Go-magnon man, Homo erectus,
	modern man
265.	Neanderthal man had brain volume of
	(a) 1650 cc (b) 1450 cc (c) 1050cc (d) 950 cc
266.	The cranial capacity was largest among the
	(a) peking man (b) African man
	(c) Java ape man (d) Neanderthal man
267.	Cranial capacity of which primitive man resembles with modern man
	(a) Homo erectus (b) Java man
	(c) Homo nean derthalensis (d) Peking man
268.	The correct statement for evolution of man is
	(a) Homo erectos was preceded by Homo habiles
	(b) Au stralopithecus lived in Australia
	(c) Neanderthal man and cro-magnon man lived at the same time also
	(d) All of them
269.	Which of the following order is the correct order of evolutionary history of
	man?
	<ul><li>(a) Peking man, heidel berg man, neandertha, cro-magnon</li><li>(b) Peking, man, Homo sapiens, cro-magnon, neanderthal</li><li>(c) Peking man, Neanderthal, Homo sapiens, hei delberg</li><li>(d) Peking man, cro-magnon, Homo sapiens, neanderthal</li></ul>
270.	In which pre-historic man's period was proper burial of dead bodies
	started?
	(a) Java man (b) Peking man

(c) Cro-magnon man (d) Neanderthal man 271. Which of the following statements is correct? (a) Homo erectus is the ancestor of man (b) Cro-magnon man's fossil has been found in Ethiopia (c) Australopitheus is the real ancestor of Homo sapiens (d) Neanderthal man is the direct ancestor of Homo sapiens 272. Homo sapiens evolved form (a) Neanderthal man (b) Java Man (c) Cro-magnon man (d) Peking man 273. How do sponges feed? (a) Filter microorganisms from water brought in through pores (b) Use namatocysts to capture small prey (c) Extract decaying plant material from sediment (d) Absorb hydrogen sulphide directly from the water 274. Which of the following are constrains imposed by the blind sac plan? (a) Only occurs in asexual organism (b) Restricted to small size organism (c) No separation of consumption and excretion (d) b & c 275. Which one of the following has radial symmetry (a) Arthopoda (insects, spider, crustaceus) (b) Cnidaria (Jelly fish, anemoves & cords) (c) Mollusca (clams, squid, octopus and sepia) (d) None of these 276. What is coelom (a) A body cavity partially lined with mesoderm (b) A body cavity lined with endoderm (c) The body cavity of Jelly fish (d) A body cavity completely lined with mesoderm 277. Which of the following phyla thought to be evolved first? (a) Arthopoda (b) Cnidaria (c) Mollusca (d) Echinodermata 278. Which of the following are sensibility abilities that are found among invertebrates? (a) Contact chemosensation (b) Colour vision

	(c) Gravitational sensation (d) All of these				
279.	Which of the following is not a mechanism of asexual reproduction				
	(a) Hermaphordism (b) Budding (c) Parthenogenesis (d) Fission				
280.	Which of the following is not an advantage of the exoskeleton in				
	arthropods and molluscks?				
	(a) Provides protection from predators				
	(b) Enhances sensory perception				
	(c) Provides rigid places for muscles to insert and against which can they				
	do work.				
	(d) Permit greater jange of movement that body plans without a rigid				
	skeletal structure.				
281.	Why it is impossible to have a single celled organism or an organism with				
	only two tissue layers the size of an elephant?				
	(a) Not impossible, just by chance such an animal has never evolved				
	(b) locomotion would be difficult				
	(c) Not enough material could be moved across cell membrances quickly				
	enough to meet nutritional and energetic requirement				
	(d) None of these				
282.	Which of the following phyla do not have blind-sac plan?				
	(a) Annelida (b) platyhelminthes (c) Ctenophora (d) Cnidarie				
283.	Which of the following is not a major factor in the success of Arthopoda  (a) Paired appendages (b) A chitinous exoskeleton (c) Body segmentation (d) Radical symmetry				
284.	Which of the following phyla are not consumed for food by human				
	(a) Cnidaria (b) Arthopoda (c) Echidermata (d) Playhelminthes				
285.	Which of the following are not trends observed in the evolution of the				
	central nervous system in invertebrate (a) Increasing size of cerebral ganglia formation of a brain (b) Reduction in the number of nerve chord (c) Replacement of nerve chords by nerve nets (d) Dominance of the ventral pair of nerve chords				
286.	Mitochondria is a organelle of which process?				
	(a) Krebs cycle (b) Glycolysis (c) Clavin cycle (d) A & b both				
287.	Tongue worm is name of				
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	(a) Devil fish	(b) Limulus	(c) Balanoglossus (d) Polychaeta		
288.	Bipinaria larva is fo	ound in			
	(a) Balanoglossus	(b) Star fish	(c) Unio	(d) Scolopendra	
289.	The power of regeneration occurs in				
	(a) Coelentrata	(b) Porifera	(c) Echinode	ermata (d) All of these	
290.	Larva of Balanoglossus is				
	(a) Tornia larva (b) Bipinaria Larva				
	(c) Trochophor larva (d) Glochidium Larva				
291.	Testes sacs in earthworm is located in which segment				
	(a) 13 & 14	(b) 9 & 10	(c) 11 & 12	(d) 10 & 11	
292.	Earthworm has no special structure for				
	(a) Locomotion	(b) nutrition			
	(c) Respiration	(d) circulatio	n		
293.	Coenosarc is a				
	(a) Living (b) No	on-living	(c) Inner, tub	olar, living (d) Non-cellular	
294.	Obelia belong to class				
	(a) Scyphozoa (b) Anthozoa (c) Hydrozoa (d) None of these				
295.	A protozoa feeds on protozoa				
	(a) Prameciun		(b) Amoeba		
	(c) Trypnosoma		(d) Plasmodium		
296.	Which of the following statement about Darwin is true?				
	(a) He failed to convince the majority of biologists and other educated				
	people in the late 10th century that life evolves.				
	(b) He thought that the biggest and strongest animals are always at an				
	advantage in natural selection				
	(c) His book on the origin of species did not sell well and the biologists in				
	his time did not take much notice of it.				
	(d) None of these				
297.	Medusa stage of cnidarians is advanced to polyp stage because				
	(a) It has great power of contractility				

- (b) It has marginal sense organ
- (c) It is motile
- (d) All of these
- 298. The stolen of obelia colony is known as
  - (a) Hydranth
- (b) Hydrorhiza
- (c) Hyporhiza (d) Root
- 299. The primary host of fasciola
  - (a) Human
- (b) Pig
- (c) Sheep
- (d) Dog
- 300. Mitochondria consist of circular DNA which works
  - (a) Independently
  - (b) Under the control of nuclear DNA
  - (c) Under the control of RNA
  - (d) Under the Control of F<sub>1</sub> particle

