# CHAPTER 4

## Animal Classification

## **PRACTICE QUESTIONS**

### **Basis of Classification**

1.	Living organism differ (a) Shape	in (b) Form	(c)	Size and habit	(d)	All of these
2.	Which is not a character (a) Multicellular (c) Cellular level of or			Cells are functiona Tissue level of orga		
3.	Which phylum shows to (a) Protozoa	issue level of organization (b) Porifera		Coelenterate	(d)	All of these
4.	Organ system level of (a) Annelida	organization is not found (b) Arthropod		Molluscs	(d)	Platyhelminthes
5.	Incomplete digestive tr (a) Annelida	act (blind sac body plan) (b) Arthropod		ound in Molluscs	(d)	Platyhelminthes
6.	Closed type of circulat <ul><li>(a) Annelida and arthr</li><li>(c) Annelida and ceph</li></ul>			Arthropod and mol Mollusc and echino		nates
7.	In open type of circular  (a) Blood flow in sinu.  (b) Blood pressure is l  (c) It is found in arthro  (d) All are true	ses	ept o	cephalopods)		
8.	Closed type of circulat (a) <i>Annelida</i>	ory system is found in (b) Cephalopods	(c)	Vertebrate	(d)	All of these
9.	<ul><li>(a) Blood pressure is h</li><li>(b) Amount of blood i</li></ul>	s limited rough arteries, veins and	l cap	oillaries		
10.	When the body of an symmetry. It is known (a) Bilateral	animal can be divided as  (b) Radial		equal left and right Biradial		ves by one plane Asymmetric

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11.	Radial symmetry is shown by  (a) Coelenterate  (c) Adult echinodermates			<ul><li>(b) Platyhelminthes</li><li>(d) Both (a) and (c)</li></ul>			
12.	Most of the sponges are (a) Bilateral		Radial	(c)	Biradial	(d)	Asymmetric
13.	The first diploblastic ar (a) Coelenterates		l is Platyhelminthes	(c)	Aschelminthes	(d)	Annelida
14.	The first triploblastic and (a) Coelenterates		ll is Platyhelminthes	(c)	Aschelminthes	(d)	Annelida
15.	Triploblastic animal co (a) Ectoderm		ns Mesoderm	(c)	Endoderm	(d)	All of these
16.	Aschelminthes are (a) Eucoelomate	(b)	Pseudocoelomate	(c)	Acoelomate	(d)	None of these
17.	Which of the following (a) Porifera		coelomate? Coelenterates	(c)	Platyhelminthes	(d)	All of these
18.	Metameric segmentation (a) Annelida		found in Arthropod	(c)	Both (a) and (b)	(d)	Platyhelminthes
19.	Notochord is derived fr (a) Ectoderm		which layer? Mesoderm	(c)	Endoderm	(d)	All of these
20.	Which of the following <ul><li>(a) Dorsally situated</li><li>(c) Rod like</li></ul>	s is c	orrect about notoch	(b)	Mesodermal in orig	gin	
21.	Radial symmetry is sho (a) Ctenophores (c) Adult echinoderma		by		Coelenterates All of these		
22.	The undifferentiated lay (a) Mesophyll		resent between the Gastral layer		derm and endoderm Archenteron		oelenterate is Mesoglea
23.	<ul> <li>Which of the following is correct about metamerism (true segmentation)?</li> <li>(a) Every organ shows serial repetition.</li> <li>(b) The body is divided externally as well as internally</li> <li>(c) Each segment is not supplied with separate nerve and blood vessels.</li> <li>(d) All of these</li> </ul>						
24.	In some animals, the beas scattered pouches in (a) Eucoelom (c) Acoelom			nd e (b)			
25.	The following are coeld <ul><li>(a) Annelida</li><li>(c) Mollusca</li></ul>	omat	es except (true coel	(b)	Platyhelminthes Chordata		

26.		of organism from the formsia, Spongilla, Hydra, (b) 2		y fish, Earthworm	le: (d)	1	
27.	Which of the following (a) It is a solitary or co	is incorrect about Porifolonial organism a and some live in fresh	era?		(u)	7	
28.	Members of phylum Po (a) Flatworms	orifera are commonly kn (b) Roundworms		as Sponges	(d)	Corals	
29.	Water path in sponges <ul> <li>(a) Ostia → Spongoco</li> <li>(c) Ostia → Spongoco</li> </ul>	$el \rightarrow Osculum$		Osculum → Spong Spongocoel → Ost			
30.	<ul> <li>The unique character of sponges is</li> <li>(a) Choanocytes or collar cells line, the spongocoel and the canals.</li> <li>(b) That they are hermaphrodite.</li> <li>(c) That they live in marine water.</li> <li>(d) It reproduces by asexual means only.</li> </ul>						
31.	<ul> <li>The character possessed by all sponges are</li> <li>(a) That all are fresh water</li> <li>(b) All possess tissue level of organization</li> <li>(c) External fertilization</li> <li>(d) Hermaphrodite</li> </ul>						
32.	<ol> <li>Cellular level of or</li> <li>Body is supported</li> <li>Larva stage is mor</li> </ol>	by endoskeleton made uphologically different fro transport is helpful in ganism.	p of om a	Sspicules or spongindult.  Therefore the sponging of food, responding of food, responding to the sponging of t		ory exchange and	
33.	Select the fresh water s (a) Sycon	ponge from the following (b) Euspongia	-	Spongilla	(d)	Hyalonema	
34.	Another name of sycor (a) Scypha	is (b) Euspongia	(c)	Spongilla	(d)	Hyalonema	
35.	Match the following:  Column I  A. Sycon  B. Spongilla  C. Euspongia  (a) A-2, B-3, C-1  (c) A-3, B-2, C-1	- - -	1. 2. 3. (b)	Bath sponge Scypha Fresh water sponge A-1, B-2, C-3 A-3, B-1, C-2	<del>)</del>		

36.	Leucosolenia, Euspong	of marine sponges from gia, Spongilla, Sycon, Hy	valo	пета			
	(a) 3	(b) 4	(c)	5	(d)	2	
37.	The primitive multicell (a) Ctenophores	ular animals having cell (b) Sponges		level of organizatio Corals		Crustacean	
38.	Water enters through i	minute pores in the boo	dy w	all into central cav	ity i	n sponges. These	
	minute pores are known (a) Osculum	n as (b) Ostia	(c)	Spongocoel	(d)	Any of the above	
39.		nd ova are produced by	the	same individual. Su	ch ty	pes of organisms	
	are called	(h) II.:	(-)	II	(1)	Discrisco	
	(a) Asexual	(b) Unisexual		Hermaphrodite	(a)	Dioecious	
40.	Canal system and choa (a) Ctenophora	nocytes are characteristi (b) Coelenterates		Platyhelminthes	(d)	Porifera	
41.	In sponges, the commo (a) Amphiblastula	only seen larva are (b) Parenchymula	(c)	Planula	(d)	Both (a) and (b)	
42.	Digestion in sponges is	S					
	(a) Intracellular	(b) Extracellular	(c)	Both (a) and (b)	(d)	None of these	
43.	<ul> <li>Which of the following is correct about reproduction in sponges?</li> <li>(a) The mode of asexual reproduction such as gemmule formation, budding and fragmentation.</li> <li>(b) Fertilization is internal</li> <li>(c) Development is indirect</li> <li>(d) All of these</li> </ul>						
44.	Exogenous budding is (a) Scypha	seen in case of (b) Euspongia	(c)	Spongilla	(d)	Hyalonema	
45.	The following characte (1) Aquatic, mostly m (3) Radially symmetri (a) Porifera		(2) (4)	Sessile or free swii They show polymo Echinodermata	orphi		
46.	Cnidoblast is a character (a) Porifera	eristic feature of (b) Coelenterata	(c)	Ctenophora	(d)	Arthropoda	
47.	The first diploblastic ar (a) Sycon	nimal showing tissue lev (b) Gorgonia		f organization is Taenia	(d)	Locust	
48.	Cnidoblast is used for (a) Anchorage	(b) Defense	(c)	Capture of prey	(d)	All of these	
49.	cellular digestion.  Physalia, Pleurobrachi	r of organisms from the a, Taenia, Culex, Apis, N Adamsia, Gorgonia, Ct (b) 8	Verie	es, Echinus, Salpa, I Ilana.		drina, Pennatula,	

50.	Select the correct mate (a) Petromyzon (b) Echinus (c) Apis (d) Pennatula	hing: - - - -	Hag fish Brittle star Silkworm Sea pen				
51.	Select incorrect matchi (a) Locusta (b) Cucumaria (c) Meandrina (d) Echinus	ng: - - -	Locust Sea cucum Sea anemo Sea urchin				
52.	Some cnidarians examp (a) Spongin fibres (c) Calcium carbonate		ave a skelete	(b)	omposed of Silica Any of these		
53.	Metagenesis is shown by (a) Hydra	y (b) Adams	sia	(c)	Aurelia	(d)	Obelia
54.	Which of the following (a) Exocoetus	(b) Betta	fish?	(c)	Saw fish	(d)	Jelly fish
55.	The umbrella shape and tion is		-		-		-
	(a) Polyp	(b) Medus	a	(c)	Both (a) and (b)	(d)	None of these
56.	Sessile, cylindrical form (a) Polyp	n of coelent (b) Medus	_		by asexual reprodu Both (a) and (b)		
57.	$Polyp \rightarrow Asexually \rightarrow$	Medusa →	Sexually $\rightarrow$	Poly	p		
	The above cycle is shown (a) Physalia	wn by (b) Aurelia	a	(c)	Obelia	(d)	Hydra
58.	Select from the follow common names.  Physalia, Adamsia, Per  (a) 2				ıa, Hydra, Aurelia, (		ia
59.	Which of the following (a) gorgonia	is known as (b) aurelia	-		n-of-war? physalia	(d)	obelia
60.	The phylum in which for (a) Porifera	irst time ner (b) Coelen			Platyhelminthes	(d)	Protozoa
61.	Gastro-vascular cavity (a) Porifera	with single (b) Coelen			in Aschelminthes	(d)	Annelida
62.	Coelenterates asexually (a) Budding	reproduce (b) Gamet	•	(c)	Conidia	(d)	Gemmules
63.	The larva stage shown (a) Amphiblastula	by coelenter (b) Parenc			Planula	(d)	All of these

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64.	Match the following:	
		olumn II
	A. Physalia – 1.	Brain coral
	B. Adamsia – 2.	Sea fan
	C. Pennatula – 3.	Sea pen
	D. Gorgonia – 4.	Sea anemone
	E. Meandrina – 5.	Portuguese man-of-war
	F. Aurelia – 6.	Jellyfish
	(a) A-5, B-4, C-2, D-3, E-1, F-6	
	(b) A-5, B-4, C-3, D-2, E-1, F-6	
	(c) A-5, B-4, C-2, D-1, E-2, F-6	
	(d) A-5, B-3, C-4, D-2, E-1, F-6	
65.	Ctenophores are commonly known as	
00.	(a) Sea walnut (b) Comb jell	
66.	The following features belongs to whi	
	(1) Exclusively marine	(2) Radial symmetry
	(3) Diploblastic	(4) Tissue level organization
	(a) Coelentrata	(b) Porifera
	(c) Ctenophora	(d) Platyhelminthes
<b>67.</b>	Body bears eight external rows of cilia	ated comb plates present in phylum
	(a) Coelentrata (b) Porifera	(c) Ctenophora (d) Platyhelminthes
68	Ctenophores show	
00.	(a) Extra and intracellular digestion	(b) Sexual reproduction only
	(c) Bioluminescence	(d) All of these
		(d) Thi of these
69.	Example of ctenophores is	
	(a) Pleurobrachia (b) Ctenoplar	na (c) Both (a) and (b) (d) None of these
70.	The following features belong to which	ch phylum?
	(1) Bilateral symmetry	(2) Triploblastic, Acoelomate
	(3) Organ level of organization	(4) Dorsoventrally flattened body
	(a) Platyhelminthes (b) Aschelmin	* * * * * * * * * * * * * * * * * * * *
71	• • • • • • • • • • • • • • • • • • • •	* * * * * * * * * * * * * * * * * * * *
71.	Platyhelminthes are called flat worms	
	(a) They are triploblastic	(b) They are without coelom
	(c) They have organ level of organiza	ation (d) Their body is dorsoventrally flattened
72.	Which of the following are characters	present in platyhelminthes?
	(1) Some absorb nutrients from the ho	ost directly through their body surface.
	(2) Digestive system is incomplete, by	ranched and without anus.
	(3) Flame cells/solenocyte protoneph	ridia help in the excretion and osmoregulation.
	(4) Hooks and suckers are present in	parasitic form.
	(5) Hermaphrodites	
	(6) Fertilization is internal.	
	(7) Indirect development through man	ny larva stages.
		7 (c) All except 1 (d) All

73.	Which platyhelminthes (a) Planaria/Dugesia		pow	er of re	_	eration? Fasciola	(d)	Liver fluke
74.	Flame cells helps in exc (a) Earthworm	cretion and of (b) Hookw		-		n Roundworm	(d)	Tapeworm
75.	Internal fertilization is (a) Pleurobrachia	seen in (b) Fasciol	a		(c)	Ctenoplana	(d)	All of these
76.	(1) Fertilization	coregulation ganism give nett cells lame cells phridia	n in t		re.			
77.	Phylum whose organism (a) Platyhelminthes	n are mostly (b) Anneli		oparasit		Arthropoda	(d)	Mollusca
78.	Which of the following (a) Roundworm	are pseudoo (b) Hookw		mate?	(c)	Filarial worm	(d)	All of these
79.	The body of the aschela (a) Tapeworm	minthes is ci (b) Earthw		r in cro		ection. Hence, it i Hookworm		ed as Roundworm
80.	Roundworms/Nematod (a) Free living (c) Parasitic on animal					Aquatic or terres All of these	trial	
81.	Select the total number <i>Ascaris, Wuchereria, pleurobrachia, ctenopla</i> (a) 6	Ancyloston				sciola, Sycon,		
82.	Which character does n  (a) Excretory tube (b) excretory pore.  (b) Usually sexes are s  (c) Development may  (d) Alimentary canal is	ranched duc eparate (uni- be direct or	ets) re sexua indire	emoves al or dic ect.	boo	ly waste form the		
83.	Match the following:  Column I  A. Ascaris  B. Wuchereria  C. Ancylostoma  D. Pheretima  (a) A-2, B-4, C-3, D-		<ol> <li>I</li> <li>F</li> <li>F</li> <li>F</li> </ol>	imn II ntestina Filarial Hook w Earth w	worn orm orm (b)	A-1, B-2, C-3, l		
	(c) A-4, B-3, C-1, D-	-2			(a)	A-2, B-1, C-4, I	J-3	

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84.	<ul><li>(a) Females are smaller than males</li><li>(c) Females are longer than males</li></ul>			(b) Posterior end of male curved dorsally (d) Fertilization is external				
85.	muscular pharynx with	per of organism from to complete alimentary ca aria, Ascaris, Filarial we (b) 3	ınal.	Hookworm	ntair (d)			
86.	Metamerism is found i (a) Ascaris	n (b) Leech	(c)	Loligo	(d)	Octopus		
87.	Nephridia helps in the (a) Nereis	excretion and osmoregu (b) Pheretima		n in Hirudinaria	(d)	All of these		
88.	Closed circulatory syst (a) Nereis	em is present in (b) Pheretima	(c)	Ascaris	(d)	Both (a) and (b)		
89.	Animals having cylind metamerism belongs to (a) Arthropoda	drical body having an phylum (b) Mollusca		n system level of Annelida		nization showing  Platyhelminthes		
90.	Annelids may be (a) Aquatic (marine ar (b) Free living (c) Parasite (d) All of the above	nd fresh water), terrestria	al					
91.	The neural system connerve cord present in (a) Fasciola	sists of paired ganglia of (b) Ancylostoma		ected by lateral ner Nereis		a double ventral  Taenia		
92.	Which of the following <i>Ascaris, Wuchereria, A</i> (a) 3	g are monoecious? ncylostoma, Neries, Phe (b) 2	retir (c)		(d)	4		
93.	The first true coelomat (a) Nereis	es are (b) Centipede	(c)	Crab	(d)	Wuchereria		
94.	The following features (1) Triploblastic (2) Bilateral symmetry (3) Eucoelomate (4) Metamerism (a) Mollusca (c) Platyhelminthes	belong to which of the	(b)	wing phylum?  Aschelminthes Annelida				
95.	(a) They are longitudi		in lo	comotion.				

96.	Which of the following  (a) Mollusca	g is the largest phylum? (b) Echinodermata	(c)	Arthropoda	(d)	Annelida
97.	How many species nar	ned on earth is arthropo	da?			
	(a) $\frac{1}{2}$	(b) $\frac{2}{3}$	(c)	$\frac{1}{4}$	(d)	$\frac{3}{4}$
98.	In which of the followi (a) Mollusca (c) Arthropoda	ng phylum the body is ge	(b)	lly divided into head Echinodermata Annelida	l, thoi	rax and abdomen?
99.	Which of the following (a) Annelida	g phylum shows segmen (b) Arthropoda		n? Both (a) and (b)	(d)	Platyhelminthes
100.	The following features (1) Exoskeleton of ch (2) Malpighian tubule (3) Tracheal system f (4) Three pair of legs (a) Limulus	es as excretory organ for respiration		ow options?  Spider	(d)	Cockroach
101.	Respiration occurs thr in phylum.  (a) Mollusca	ough organs like gills, b  (b) Annelida		gills, book lungs or Arthropoda		neal system found  Echinodermata
102.	Which of the following (1) Simple or compose (2) Statocyst or balan (3) Malpighian tubula (4) Antennae (a) All except (4)	ce organ es	. •	am Arthropoda?  All except (3)	(d)	All except (2)
103.	Which of the following (a) Usually dioecious (c) Some exhibit part		(b)	on in Arthropods? Internal fertilization All of these	n	
104.	Ecdysis is seen in case <ul><li>(a) Nereis</li><li>(c) Sea urchin</li></ul>	of		Pila Cockroach		
105.	Exoskeleton of Arthroment process known a  (a) Autotomy  (b) Ecdysis (moulting)		(b)	ds at interval for th Metamerism Aestivation	e gro	wth and develop-
106.	The presence of joint a <ul><li>(a) Mollusca</li><li>(c) Arthropoda</li></ul>	appendages is the specia	(b)	of phylum Echinodermata Annelidia		
107.	Bilaterally symmetric exoskeleton are feature (a) Anneldia	eal, triploblastic, segme es of (b) Vertebrata		l, coelomate and Amphibia		red by chitinous  Arthropoda

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108.	<ul><li>(a) Development may</li><li>(b) Open circulatory s</li></ul>			nd and Malpighian	tubul	les.
109.		ing the total number of ur, Anopheles, Culex, Aed (b) 4		Prawn, Scorpion, Lo	cust, (d)	
110.	Locust, Butterfly, Scor	ing the total number of or pion, Prawn, Salpa, do. Cucumaria, Cuttle fish. (b) 6		ms, Pila, Chiton, A		on, Hyla, Myxine,
111.	Select the living fossil (a) Culex		` '	Lac insect	. ,	Limulus
112.	Following mosquitoes (a) Culex	used as vector for variou (b) Anopheles		seases: Aedes	(d)	All of these
113.	Other name of limulus (a) Laccifer	is (b) Locust	(c)	King crab	(d)	Gregarious pest
114.	Which of the following (a) Laccifer	g is a gregarious pest? (b) Locusta	(c)	King crab	(d)	Both (a) and (b)
115.	Match the following:  Column I  A. Locusta B. Honey bee C. Silkworm D. Lac insect (a) A-4, B-1, C-3, D (c) A-2, B-1, C-3, D		1. 2. 3. 4. (b)	Apis Locust Bombyx Laccifer A-2, B-1, C-4, D A-4, B-3, C-1, D-		
116.	Which of the following (a) Peripatus and crab (c) Centipede and coc		(b)	Prawn and scorpio All of these	n	
117.		ly, bilateral symmetry, tr calcium carbonate belon (b) Echinodermata	gs to			usually protected
118.	The mouth which has a (a) Mollusca	file-like rasping organ fo (b) Hemichordata		eding called radula i Echinodermata		nd in Arthropoda
119.	The body of is uns (a) Asterias	segmented with a distinct (b) Ophiura		ad, muscular foot an Balanoglossus		ceral mass Devil fish
120.	B. A _(ii)_ cavity cor	layer of skin forms a _( ntaining _(iii)_ like gills.		ver the visceral hum	ıp.	

	Fill in the blanks in the above respective place (a) Mantle, Mantle, Comb, Papilla (c) Mantle, Mantle, Feather, Tentacles			s about mollusca.  (b) Mantle, Mesoglea, Feather, Papilla (d) Mantle, Mantle, Comb, Tentacles			
121.	Which of the following (1) Mostly dioecious (3) Mainly indirect de (a) All except (4)		-	(2) (4)	n mollusca? Oviparous Fertilization is exte All except (2)		or internal All of these
122.	Which of the following (a) Devil fish	g is not a fish (b) Cuttle		(c)	Jelly fish	(d)	All of these
123.	Match the following:  Column I  A. Pila B. Chiton C. Dentalium D. Sepia (a) A-2, B-1, C-4, D (c) A-4, B-2, C-3, D				Column II 1. Tusk shell 2. Apple snail 3. Cuttle fish 4. Chaetopleura A-2, B-4, C-1, D-A-4, B-3, C-2, D-		
124.	Devil fish is called (a) Pearl oyster	(b) Tusk sh	nell	(c)	Sepia	(d)	Octopus
125.	Majority of mollusca a (a) Aquatic	re (b) Terrest	rial	(c)	Aerial	(d)	Any of the above
126.	Select the total number <i>Pila, Pinctada, Sepia, Pteropus, Elephas, Par</i> (a) 7	Loligo, Aply			ntedon, Salpa, Bufo		elone, Neophron,
127.	Mantle cavity is a site (a) Excretion	of (b) Respira	ation		Both (a) and (b)	(d)	None of these
128.	Shell in molluscs is (a) External	(b) Interna	1	(c)	Any of the above	(d)	Shell is absent
129.	Unsegmented, triplobla (a) Pheretima	astic, eucoeld (b) Laccife		(c)	Pila	(d)	All of these
130.	Select the incorrect ma <ul> <li>(a) Aurelia</li> <li>(b) Sepia</li> <li>(c) Octopus</li> <li>(d) Loligo</li> </ul>	atching:	Jelly fish Cuttle fish Devil fish Fighting fis	sh			
131.	Select the incorrect ma  (a) Gorgonia  (b) Adamsia  (c) Aplysia  (d) Antedon	atching:	Sea fan Sea anemor Sea cucum! Sea lily				

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132.	Pinctada is a (a) Sea hare	(b) Cuttle fish	(c) Pea	arl oyster	(d)	Apple snail	
133.	The common name of (a) Chaetopleura	which organism contain (b) Dentalium	s 'sea' ir (c) Se		(d)	Aplysia	
134.	Animals having calcar marine are (a) Arthropoda	reous endoskeleton with  (b) Mollusca		_		ation, completely Echinodermates	
135.	In which phylum, the late (a) Arthropoda	arva is bilaterally symm (b) Mollusca				ial symmetry? Echinodermata	
136.	<ul><li>(a) Gastro vascular ca</li><li>(b) Choanoctyes</li></ul>	eature of echinoderm is avity stem/ambulacral system					
137.	Water vascular system <ul><li>(a) Locomotion</li><li>(c) Respiration</li></ul>	helps in		apture and transpo	ort o	f food	
138.	<ul> <li>Which of the following is true about reproduction in echinoderms?</li> <li>(a) Unisexuality</li> <li>(b) Usually external fertilization</li> <li>(c) Indirect development through free swimming larva</li> <li>(d) All of the above</li> </ul>						
139.		f spiny-bodied animals f as, Echinus, Antedon, Cu (b) 5		ı, Brittle star, Oct	opus (d)		
140.	Select the correct mate (a) Asterias (b) Pila (c) Ophiura (d) Loligo	ching:  Sea urchin  Pearl oyster  Brittle star  Cuttle fish					
141.	Select the incorrect ma (a) Asterias (b) Echinus (c) Antedon (d) Cucumaria	atching:  Star fish Sea urchin Sea lily Sea fan					
142.	Sea urchin belongs to (a) Echinodermata	the class phylum (b) Hemichordata	(c) Cto	enophora	(d)	Mollusca	
143.	Another name of cucu (a) Sea urchin	mmaria is (b) Sea mouse	(c) Se	a pen	(d)	Sea cucumber	
144.	Which phylum shows (a) Mollusca	regeneration in the lost p (b) Annelida		thropoda	(d)	Echinodermata	

145.	<ol> <li>Which phylum has the following features?</li> <li>Digestive track is complete, straight or U shape.</li> <li>Worm like, unsegmented marine animal.</li> <li>Respiration is done by gills.</li> <li>Excretion by single proboscis gland.</li> <li>Circulatory system is naturally open.</li> </ol>						
4.4.5	(a) Arthropoda	(b) Mollusca	(c)	Hemichordata	(d)	Urochordata	
146.	Which is a phylum? (a) Hemichordata	(b) Urochordata	(c)	Cephalochordata	(d)	All of these	
147.	Larva of hemichordate (a) Amphiblastula	is (b) Torneria	(c)	Ammocoete	(d)	Planula	
148.	Which of the following <ul><li>(a) Internal fertilization</li><li>(c) Sexes are separate</li></ul>	g is correct about reproden	(b)	on in hemichordata? Usually direct deve Monoecious organ	elopr	nent	
149.	The body which is cyli is found in (a) Ascidia	ndrical and composed of  (b) Salpa		erior proboscis and a  Doliolum		ar and a long trunk Saccoglossus	
150.	` ′	f proboscis gland is preso (b) Salpa	ent i			Saccoglossus	
151.	<ul><li>The fundamental character of chordate is</li><li>(a) Notochord</li><li>(c) Paired pharyngeal gill slits</li></ul>			<ul><li>(b) Dorsal hollow nerve cord</li><li>(d) All of these</li></ul>			
152.	Which is not a distinct (a) Notochordal is abs (c) Heart is ventral	ive character of non-cho sent	(b)	a? Ventral and double Post-anal tail is abs		ve cord	
153.	<ol> <li>Notrchord is press</li> <li>CNS is dorsal, ho</li> <li>Pharynx is perfora</li> <li>Heart is ventral.</li> <li>A post-anal is press</li> </ol>	llow and single.  ated by gill slits.		s? All of these	(d)	All except (5)	
154.	Animal belonging to p (a) Bilateral symmetr (b) Organ system leve (c) Closed circulatory (d) All of these	ry, triploblastic and the c el of organization	oelo	m			
155.	Urochordata and cepha (a) Non-chordates	alochordate are referred (b) Vertebrates		Protochordates	(d)	All of these	
156.		notochord is present in (b) Urochordata	tail			All of these	

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157.	Notochord is extend (a) Hemichordata (c) Cephalochordata	ed from head to tail region	(b)	is persistent through Urochordata All of these	ghout	their life in
158.	Ascidia, Salpa, Doli	llowing belongs to the su		_		4
	(a) 1	(b) 2	(c)	3	(d)	4
159.	The other name of E  (a) Amphioxus	ranchiostoma is (b) Lancelet	(c)	Both (a) and (b)	(d)	None of these
160.	<ul><li>(a) In vertebrates, the state of throughout life.</li><li>(b) In cephalochord throughout life.</li><li>(c) Protochordates and the state of t</li></ul>	statement from the follow ne notochord is replaced dates, the notochord is ex are exclusively marine. esent in tail of adult in ur	by car tended	I from head to tail		
161.	(b) Kidneys for exc	r heart with 3, 2 or 4 cha retion and osmoregulatio ges which may be fins or	n.			
162.	Which of the follow (a) Scales	ing is exoskeleton in vert (b) Feathers		es? Hair	(d)	Any of the above
163.	All living members (a) Turbellaria	of which class is ectopara (b) Chondrichthyes		n fishes? Cephalopoda	(d)	Cyclostomata
164.	Which of the following are characters of cyclostomata?  (a) 6–15 pairs of gill slits is present for respiration  (b) Sucking and circular mouth without jaws  (c) Body is devoid of scales and paired fins  (d) All of these					
165.		ving organism possess c ystem, which helps them (b) Scoliodon	migra		or spav	
166.	within a few days, the correct one.	ing are marine but migra they die. Their larvae, a	ıfter n	netamorphosis, re	turn t	
	<ul><li>(a) Petromyzon (La</li><li>(c) Scoliodon</li></ul>	mprey)		Myxine (Hagfish) Both (a) and (b)	1	
167.	Which of the follow (a) Ectoparasite on (b) Skin with scales (c) One kidney for	ing is correct about cyclo fishes during their adult s and contain unicellular re- excretion. mbered and possess 4 pa	stome stage. nucou	es? as gland.	ion.	

168.	The class name 'cy (a) Marine, but rep (b) Mouth is anter (c) Ectoparasite of (d) Jaws are absen	production takes production takes production takes fishes	place in fres		ater		
169.	The study of fishes (a) Ichthyology	is called (b) Serpent	ology	(c)	Saurology	(d)	Chonchology
170.	<ol> <li>Marine with st</li> <li>Cartilaginous</li> <li>Mouth is vents</li> <li>Caudal fin in I</li> <li>Notochord is p</li> </ol>	endoskeleton ral Heterocercal persistent through					
	The above character Dog fish, Saw fish, Rohu, Catla, Magu	Flying fish, Figh					
	(a) 3	(b) 4		(c)	6	(d)	7
171.	The scales found in (a) Placoid	(b) Cycloid		(c)	Ctenoid	(d)	All of these
	<ul> <li>Which of the following is incorrect about cartilaginous fish?</li> <li>(a) Teeth are modified with placoid scales which are backwardly directed.</li> <li>(b) 5 to 7 pair of gills for respiration but without operculum (i.e., gill cover).</li> <li>(c) Air bladder is absent so they have to swim constantly to avoid sinking.</li> <li>(d) In males, the pelvie fins claspers are absent.</li> </ul>						
173.	Select the total nun Scoliodon, Pristis, Hyla, Labeo, catla, (a) 7	Clarias, Betta,	Pterophyllui		Echinus, Devil Fish		ttle fish, Sea lily,
174.	Select the difference Cartilaginous fish  (a) Operculum is at (b) Fertilization is (c) Posses 5–7 pair (d) Mostly ovipared	absent internal r of gills	ly written:		Bony fishes Operculum is prese Fertilization is exte Posses 4 pair of gil Mostly viviparous	rnal	
175.	Which fish possess (a) Scoliodon (dog (c) Torpedo				Trygon Pristis (saw fish)		
176.	Which fish possess (a) Scoliodon (dog (c) Torpedo	-			Trygon Pristis (saw fish)		
177.	Males possess class (a) Cyclostomata	pers in pelvic fins (b) Chondri		(c)	Osteicthyes	(d)	Amphibia

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178.	Select the correct mate (a) Petromyzon (b) Myxine (c) Carcharodon (d) Trygon	hing:  - Hagfish  - Lamprey  - Great white  - Torpedo	e shark	
179.	<ol> <li>Stream-lined body</li> <li>Both marine and f</li> <li>Mouth is terminal</li> <li>Caudal fin homoco</li> <li>4 pair of gills with</li> <li>Which class has the abo</li> <li>Cyclostomata</li> </ol>	ercal operculum	(c) Osteichthyes	(d) Amphibia
180.	Osteicthyes possess wh (a) Placoid	ich kind of scales? (b) Cycloid	(c) Ctenoid	(d) Both (b) and (c)
181.	External fertilization is (a) Sting ray	found in (b) Flying fish	(c) Saw fish	(d) Dog fish
182.	Select the total number Exocoetus, Hippocamp Pristis, Scolidon, Carcia (a) 6	ous, Labeo, Catla, Cla	_	lum, Trygon, Torpedo, (d) 12
183.	Air bladder which regu (a) Cyclostomata	lates buoyancy is preser (b) Cartilaginous fish		(d) Amphibians
184.	Select the correct mate (a) Betta (b) Hippocampus (c) Pterophyllum (d) Clarias	hing:  - Fighting fis  - Flying fish  - Fighting fis  - Labeo		
185.	Select the incorrect ma <ul><li>(a) Scoliodon</li><li>(b) Pterophyllum</li><li>(c) Clarias</li><li>(d) Trygon</li></ul>	tching:  Dog fish Angel fish Magur Torpedo		
186.	Select the correct mate (a) Cyclostomata (b) Chondrichthyes (c) Osteichthyes (d) All are correct	hing:  - gills (6–15  - gills (5–7 p  - gills (4 pair	pairs)	
187.	Which of the following  (a) Exocoetus (flying f  (c) Both (a) and (b)	•	<ul><li>(b) Hippocampus (sea</li><li>(d) Saw fish (pristis)</li></ul>	a-horse)
188.	Which of the following (a) Labeo (rohu)	is a fresh water bony fi (b) Catla (katla)	sh? (c) Clarias (magur)	(d) All of these

189.	Which of the following (a) Scoliodon (dog fish (c) Torpedo (electric r		(b)	rygon (sting ray) None of these		
190.	The name 'amphibian' (a) Aquatic habitat (c) Both (a) and (b)	indicates that they can l	(b)	n Terrestrial habitat Aerial habitat		
191.	Amphibian belong to s (a) Pisces	uper class (b) Agnatha	(c)	Gnathostomata	(d)	Tetrapoda
192.	•	nto head and trunks, tail act as respiratory organ.		y be present in some Reptilia		Osteichthyes
193.	Respiration in adult from (a) Buccopharyngeal (c) Lungs		` /	Skin All of these		
194.	Respiration in tadpole (a) Gills	larva is by (b) Lungs	(c)	Skin	(d)	All of these
195.	Which of the following <ul><li>(a) Alimentary canal</li><li>(c) Reproductive tract</li></ul>	tract open into a comm	(b)	hamber cloaca in an Urinary tract All of these	nphi	oians?
196.	Which type of dentition (a) Homodont	n is found in amphibian (b) Thecodont		Heterodont	(d)	Monophyodont
197.	Three chambered heart, (a) Labeo	cold blooded, external for (b) Salpa		zation and indirect d Frog		opment is seen in Myxine
198.	Skin is moist and a tyn (a) Hyla	npanum representing ear (b) Frog		ound in Ichthyophis	(d)	All of these
199.	Select the correct mate Column I A. Bufo B. Frog C. Hyla D. Salamandra E. Ichthyophis (a) A-2, B-5, C-4, D-(b) A-5, B-2, C-4, D-(c) A-2, B-4, C-5, D-(d) A-5, B-4, C-2, D-(d)	- - - -1, E-3 -1, E-3	Co 1. 2. 3. 4. 5.		an	
200.	Limbless amphibian is (a) Frog	(b) Tree frog	(c)	Ichthyophis	(d)	Bufo

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201.	First class of vertebrat (a) Amphibia	e, which are fully adopte (b) Reptilia		r terrestrial life is Aves	(d)	Mammals
202.	Reptilia means <ul><li>(a) Flying mode of lo</li><li>(c) Saltation mode of</li></ul>			Swim mode of local Creeping or crawling		
203.	<ul><li>(a) Body is covered b</li><li>(b) Body is divisible i</li><li>(c) Heart is usually th</li></ul>	g is incorrect about repti y dry and cornified skin, nto head, neck, trunk and ree chambered. through lungs and skin.	epic		tes.	
204.	Four chambered heart (a) Crocodilus	is present in all except (b) Alligator	(c)	Corvus	(d)	Calotes
205.	Which of the following (a) Snakes	g shed their scales as skir (b) Lizards		st? Both (a) and (b)	(d)	Testudo
206.	Sexes is separate, inter (a) Chelone	rnal fertilization, oviparo (b) Testudo		nd direct developme Bangarus		seen in case of All of these
207.	Cloaca is seen in case (a) Amphibia	of (b) Reptiles	(c)	Aves	(d)	All of these
208.	Select the incorrect may (a) Chelone (b) Testudo (c) Chameleon (d) Calotes	atching:  Turtle  Tortoise  Tree lizard  Wall lizard				
209.	Select the incorrect made (a) Naja (b) Krait (c) Vipera (d) Hemidactylus	atching:  Cobra Bangarus Viper Garden lizard				
210.		r of lizards from the followeleon, crocodylus, hemio (b) 3		ylus, columba, neop	hron (d)	
211.	Which of the following (a) Cobra	g is a poisonous snake? (b) Krait	(c)	Viper	(d)	All of these
212.	Limbless reptile is (a) Chameleon	(b) Crocodile	(c)	Chelone	(d)	Snake
213.	In birds The forelimbs are mod Jaw is modified into _ Bones are _(3)_ Heart is _(4)_					

	Fill in the blanks correctly: (a) Wings, beak, solid, 3 chambered (b) Wings, beak, pneumatic, 4 chambered (c) Claws, beak, pneumatic, 3 chambered (d) Wings, beak, solid, incompletely 4 chambered	nbered
214.	The first vertebrate which are warm-blooded (a) Reptilia (b) Amphibian	d (c) Birds (d) Mammals
215.	The aves have additional chamber in digesting for food grinding.  (a) crop, gizzard  (c) crop, pharynx	ve tract and of which is for food storage and  (b) gizzard, crop  (d) pharynx, gizzard
216.	All are flying birds from the following except (a) Corvus (b) Columba	pt (c) Psittacula (d) Aptenodytes
217.	Pneumatic bones are present in  (a) Corvus  (c) Pavo (peacock)	<ul><li>(b) Neophron (vulture)</li><li>(d) All of these</li></ul>
218.	Which of the following is incorrect about bit (a) Air sacs is connected to lungs which he (b) Hind limb posses scales and are modified (c) Separate sexes, internal fertilization, ov (d) Endoskeleton consists of feathers, scale	lp in respiration. ed for walking, swimming or clasping. iparous and direct development.
219.	Mammalia means organism which possess <ul><li>(a) Exoskeleton</li><li>(c) Mammary gland</li></ul>	<ul><li>(b) Endoskeleton of bone</li><li>(d) Two pair of limbs</li></ul>
220.	The following features belong to (1) Exoskeleton include hairs on body, horn (2) Pinna is present. (3) Heart is four chambered. (4) Warm-blooded (homoiotherm). (5) Thecodont and heterodont teeth. (a) Reptilians (c) Mammals	(b) Aves (d) Amphibians
221.	Mammals are adapted for (a) Walking and running (c) Swimming and flying	<ul><li>(c) Climbing and burrowing</li><li>(d) Any of the above</li></ul>
222.	Mammals are mostly (a) Viviparous (b) Oviparous	(c) Ovoviviparous (d) All of these
223.	Oviparous mammal is (a) Canis (dog) (c) Pteropus (flying fox	<ul><li>(b) Felis (cat)</li><li>(d) Ornithorhynchus (platypus)</li></ul>

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224.		ect the incorrect ma	tching:							
		Kangaroo	_		ropus					
		Blue whale	_		enoptera	l				
		Monkey	_	Mac						
	(d)	Elephas	_	Can	nel					
225.	Fine	d out the incorrect n	natching	:						
	(a)	Reptiles	_	Che	lone, Tes	tud	lo, Chameleon			
	(b)	Aves	_	Psitt	tacula, A	pte	nodytes, Neophror	ı		
		Mammals	_				, Delphinus			
	(d)	Amphibian	_	Naja	a, bangar	us,	Calotes			
226.	Aqu	atic mammal is								
	(a)	Panthera tigris	(b) Bal	aenoptei	ra (	c)	Pteropus	(d)	Macropus	3
227.	Whi	ich of the following	is a 'rat	'?						
		Felis	(b) Car		(	c)	Camelus	(d)	Rattus	
228.	Wh	ich of the following	mamma	al have a	erial adaı	ota	tion?			
		Felis	(b) Cai		-		Bat	(d)	Macropus	S
220	Tho	basic fundamental	footuro	which on	oblog ng	to 1	aroadly aloggify the	onir	nal kinada	m oro
229.		Level of organisation					Cell organization,			iii ai e
		Segmentation of no					All the above	COCI	<i>J</i> 111	
220		ect the total number			`					
230.		Coelenterates have					_			
	. /	Ctenophores are ma								
		Annelids are metan						า		
		The echinoderm po					with a true cocion			
		Hemichordates are					narine animals char	acter	ized by cyli	ndrical
		body with probosci							3 3	
	(a)		(b) 3			c)	4	(d)	5	
231.	The	most primitive cho	rdates a	nd are ec	topariste	on	fishes belongs to	the cl	ass	
		Chondrichthyes	(b) Am		_		Cyclostomata		Osteichth	yes
122	Cala	ect the incorrect i	notohina	^ ~. ГА. Т	Obrelium	Ď.	Samontation C	. C:	·oulotom,	ar ratam
232.		Distinctive features				D.	Segmentation, C	. CI	iculatory s	system,
	D. 1	A	<b>B</b>	C	resent		D			
	(a)	Ctenophore	A	A	Comb r	lat	es for locomotion			
		Aschelminthes	A	P			m shaped, elongate	ed		
		Annelid	P	P			nentation like rings			
		Arthropoda	P	P	-	_	pendages			
233.	The	below figure shows	which 1	type of s	vmmetrv					
	1110	out inguie show	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,   _/					

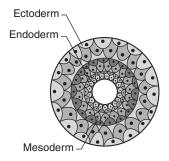
**H** 



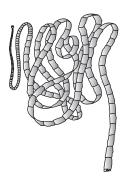
(a) Bilateral (b) Radial (c) B

(c) Biradial (d) Asymmetry

**234.** The below diagram shows \_\_\_\_ symmetry, which is also found in the following group of organism



- (a) Adamsia, Asterias, Aplysia
- (c) Taenia, Ctenoplana, Antedon
- (b) Salpa, Hyla, Calotes
- (d) Doliolum, Gorgonia, Sycon
- 235. The excretory organ present in the organism given in figure is



- (a) Rennet cells
- (c) Malpighian tubules

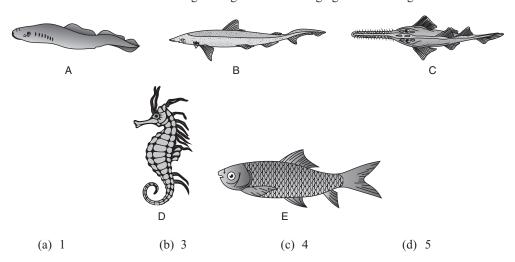
- (b) Protonephridia or flame cells
- (d) Kidney
- 236. All the features are present in the organism which is shown below in the diagram except



- (a) It belongs to the second largest animal phylum.
- (b) Body is segmented and covered by calcareous shell.
- (c) Triploblastic, coelomate
- (d) Mantle cavity is present

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237. Find out the total number of organism given in following figure that belongs to marine habitat:



**238.** Organism given in figure is respire by



(a) Lungs

(b) Skin

(c) Buccopharyngeal cavity

(d) All

### **ASSERTION AND REASON QUESTIONS**

Read the **assertion** and **reason** carefully to mark the correct option out of the options given below:

- (a) If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- **(b)** If both the assertion and reason are true but the reason is not a correct explanation of the assertion.
- (c) If the assertion is true but the reason is false.
- (d) If both the assertion and reason are false.
- **239. Assertion:** A closed circulatory system is found in annelids.

Reason: Annelids posses true coelom.

**240. Assertion:** Fertilization in sponge is internal.

**Reason:** Sponges are aquatic organisms.

**241. Assertion:** The skeleton of sponges is made up of spicules.

**Reason:** Composition of spicules help in classification of sponges.

**242. Assertion:** Acraniata is a group of organisms which do not have distinct cranium.

**Reason:** It includes small marine forms without head.

**243. Assertion:** Cold blooded animals do not have fat layer.

**Reason:** Cold blooded animals use their fat for metabolic process during hibernation.

**244. Assertion:** Cyclostomes are marine but migrate for spawning to fresh water.

**Reason:** Larvae of cyclostome is metamorphosed in marine water.

**245. Assertion:** Sponges belong to Porifera.

**Reason:** Sponges have canal system.

**246. Assertion:** A shark can stay at a desired level in water without swimming.

**Reason:** It has a buoyancy-regulating organ called as the swim bladder.

**247. Assertion:** Birds have one ovary.

**Reason:** This reduces the body weight for flight.

**248. Assertion:** Plasmodium vivax is responsible for malaria.

**Reason:** Malaria is caused by polluted water.

**249. Assertion:** Birds are warm blooded.

**Reason:** Birds are able to maintain a constant body temperature.

**250. Assertion:** Systematics is the branch of biology that deals with classification of living organisms.

**Reason:** The aim of classification is to group the organisms.

**251. Assertion:** All birds, except the ones like koel (cuckoo) build nests for retiring and taking rest during night time (day time for nocturnal).

Reason: Koel lays its eggs in the nests of tailor bird.

**252. Assertion:** Bats and whales are classified as mammals.

Reason: Bats and whales have four-chambered heart.

**253. Assertion:** Tapeworm, roundworm and pinworm are endoparasites of human intestine.

**Reason:** Improperly cooked food is the source of all intestinal infections.

**254. Assertion:** The duck-billed Platypus and the spiny ant-eater, both are egg-laying animals yet they are grouped under mammals.

**Reason:** Both of them have seven cervical vertebrae and 12 pairs of cranial nerves.

**255. Assertion:** Coelenterates are triploblastic.

Reason: Coelenterates contain mesoderm in between ectoderm and endoderm.

**256. Assertion:** Digestive system of platyhelminthes is incomplete.

**Reason:** They have single opening to outside of the body, serve as both mouth as well as anus.

**257. Assertion:** Coelenterates, Ctenophores and adult Echinoderms are said to be radial symmetrical.

**Reason:** Their body can be dived into two equal halves in any plane passing through central axis of the body.

258. Assertion: Obelia shows metagenesis.

**Reason:** Obelia is polymorphic organism.

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**259. Assertion:** Metagenesis in Obelia is equivalent to alternation of generation in plant

Reason: Polyp is haploid and medusa phase is diploid in Obelia

**260. Assertion:** Ascidia belong to sub - phylum urochordata.

Reason: Notochord is present in tail of larva stage.

**261. Assertion:** Fertilisation in bony fishes is usually external.

**Reason:** In males in bony fishes pelvic fins bear claspers.

**262. Assertion:** Birds have pneumatic bones.

Reason: This reduce weight for flight

**263. Assertion:** Snake shed their scale as skin cast.

**Reason:** It allow continue growth of snake.

**264. Assertion:** All vertebrates are chordates.

**Reason:** Vertebrates posses notochord during the embryonic period.

**265. Assertion:** Most sponge's body are said to be asymmetrical.

**Reason:** Body of most sponge can't be divided into two equal half by any plane pass through the centre of body.

**266. Assertion:** Aschelminthes are pseudocoelomate.

**Reason:** Body cavity in these organisms is not lined with mesoderm.

**267. Assertion:** Porifera to Echinoderms are non-chordates.

**Reason:** Notochord is not formed during embryonic development in these animals.

**268.** Assertion: Coelenterates are called chidarians.

**Reason:** They possess enidoblasts on tentacles and the body.

**269. Assertion:** Bioluminescence is well marked in ctenophores.

Reason: All ctenophores are exclusively marine.

**270. Assertion:** Annelids shows metameric segmentation.

**Reason:** Body of annelids divided externally as well as internally.

**271. Assertion:** Platyhelminthes are known as flat worms.

**Reason:** Platyhelminthes have laterally compressed body.

**272. Assertion:** In amphibian skin is generally moist.

Reason: They shows cutaneous respiration.

**273. Assertion:** All mammals are viviparous.

Reason: All mammals show external fertilisation.

### **PREVIOUS YEAR QUESTIONS**

1. The crocodile and penguin are similar to whale and dogfish in which one of the following features?

[AIPMT MAINS 2010]

- (a) It possess a solid single stranded central nervous system.
- (b) Lay eggs and guard them till they hatch.
- (c) Possess bony skeleton.
- (d) Have gill slits at some stage.

2. One example of animals having a single opening to the outside that serves both as mouth as well as anus is

[AIPMT PRE 2010]

(a) Octopus

(b) Asterias

(c) Ascidia

(d) Fasciola

**3.** Which one of the following statements about all the four of Spongilla, leech, dolphin and penguin is correct?

[AIPMT PRE 2010]

- (a) Penguin is homoiothermic while the remaining three are poikilothermic.
- (b) Leech is a fresh water form while all others are marine.
- (c) Spongilla has special collared cells called choanocytes, not found in the remaining three.
- (d) All are bilaterally symmetrical.
- **4.** Which one of the following kinds of animals are triploblastic?

[AIPMT PRE 2010]

(a) Flat worms

(b) Sponges

(c) Ctenophores

(d) Corals

5. Which one of the following statements about certain given animals is correct?

[AIPMT PRE 2010]

- (a) Round worms (Aschelminthes) are pseudocoelomates
- (b) Molluscs are acoelomates
- (c) Insects are pseudocoelomates
- (d) Flat worms (Platyhelminthes) are coelomates
- **6.** Which one of the following statements is totally wrong about the occurrence of notochord, while the other three are correct?

[AIPMT MAINS 2011]

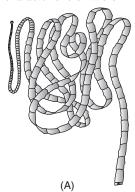
- (a) It is present only in larval tail in ascidian.
- (b) It is replaced by a vertebral column in adult frog.
- (c) It is absent throughout life in humans from the very beginning.
- (d) It is present throughout life in Amphioxus.
- 7. Frogs differ from humans in possessing

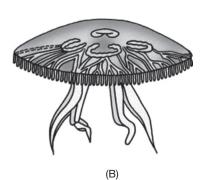
[AIPMT MAINS 2011]

(a) Paired cerebral hemispheres

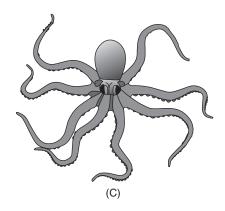
- (b) Hepatic portal system
- (c) Nucleated red blood cells

- (d) Thyroid as well as parathyroid
- **8.** The figures (A-D) show four animals. Select the correct option with respect to a common characteristic of two of these animals.





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[AIPMT MAINS 2011]

- (a) A and D respire mainly through body wall
- (b) B and C show radial symmetry
- (c) A and B have cnidoblasts for self-defence
- (d) C and D have a true coelom
- 9. Which one of the following have the highest number of species in nature?

[AIPMT PRE 2011]

(a) Insects (b) Birds (c) Angiosperms (d) Fungi

10. What will you look for to identify the sex of the following?

[AIPMT PRE 2011]

(a) Male frog — A copulatory pad on the first digit of the hind limb

(b) Female cockroach - Anal cerci

(c) Male shark
 (d) Female ascaris
 Claspers borne on pelvic fin
 Sharply curved posterior end

11. In which one of the following the genus name, its two characters and its class/phylum are correctly matched?

[AIPMT PRE 2011]

Genus	Two characters	Class/phylum
(a) Salamander	(1) A tympanum represents ear	Amphibian
	(2) Fertilization is external	
(b) Pteropus	(1) Skin possesses hair	Mammalian
	(2) Oviparous	
(c) Aurelia	(1) Cnidoblast	Coelenterate
	(2) Organ level of organization	
(d) Ascaris	(1) Body segmented	Annelid
	(2) Males and females distinct	

**12.** Which one of the following animals is correctly matched with its particular named taxonomic category?

[AIPMT PRE 2011]

(a)	Cuttlefish	_	Mollusca, a class
(b)	Humans	_	Primata, the family
(c)	Housefly	_	Musca, an order
(d)	Tiger	_	tigris, the species

13. Which one of the following groups of animals is correctly matched with its one characteristic feature without even a single exception?

[AIPMT PRE 2011]

(a) Chordate — Possess a mouth provided with an upper and a lower jaw

(b) Chondrichthyes - Possess cartilaginous endoskeleton

(c) Mammalian — Give birth to young ones

(d) Reptilian - Possess 3 chambered heart with one incompletely divided

ventricle

**14.** Which one of the following categories of animals is correctly described with no single exception in it?

[AIPMT MAINS 2012]

- (a) All bony fishes have four pairs of gills and an operculum on each side.
- (b) All sponges are marine and have collared cells.
- (c) All mammals are viviparous and possess diaphragm for breathing.
- (d) All reptiles possess scales, have a three chambered heart and are cold blooded (poikilothermal).
- **15.** Which one of the following pairs of animals are similar to each other pertaining to the feature stated against them?

[AIPMT MAINS 2012]

(a) Garden lizard and crocodile — Three chambered heart
(b) Ascaris and ancylostoma — Metameric segmentation
(c) Sea horse and flying fish — Cold blooded (poikilothermal)

(d) Pteropus and ornithorhyncus – Viviparity

**16.** In which one of the following, the genus name, its two characters and its phylum are not correctly matched, whereas the remaining three are correct?

[AIPMT PRE 2012]

Genus name	Two characters	Phylum
(a) Pila	<ul><li>(1) Body is segmented</li><li>(2) Mouth with radula</li></ul>	Mollusca
(b) Asterias	<ul><li>(1) Spiny skinned</li><li>(2) Water vascular system</li></ul>	Echinodermata
(c) Sycon	<ul><li>(1) Pore bearing</li><li>(2) Canal system</li></ul>	Porifera
(d) Periplaneta	<ul><li>(1) Jointed appendages</li><li>(2) Chitinous exoskeleton</li></ul>	Arthropoda

4.28 Animal Classification

17. Match the name of the animal (column I), with one characteristics (column II), and the phylum/class (column III) to which it belongs:

[AIPMT 2013]

					[/111 1/11 2013]
	Column-I	Column-II		Column-III	
	(a) Petromyzon	Ectoparasite		Cyclostomata	a
	(b) Icthyophis	Terrestrial		Reptilian	
	(c) Limulus	Body covered by chitinous	s exoskeleton	Pisces	
	(d) Adamsia	Radially symmetrical		Porifera	
18.	Which of the follow	ving are correctly matched	with respect to	their taxonomic	classification? [AIPMT 2013]
	<ul><li>(b) Centipede, mill</li><li>(c) House fly, butte</li></ul>	le fish, silverfish, Pisces ipede, spider, scorpion Inse rfly, tsetse fly, silverfish Inse sea urchin, sea cucumber ec	secta		
19.	Which group of ani	mals belong to the same ph	ylum?		F + TD> (T) 00101
	<ul><li>(a) Malarial parasit</li><li>(b) Earthworm, Pin</li><li>(c) Prawn, Scorpio</li><li>(d) Sponge, Sea and</li></ul>	n, Locusta			[AIPMT 2013]
20.	One of the represen	tatives of Phylum Arthropo	da is		[ A ID) (T 2012]
	<ul><li>(a) Cuttlefish</li><li>(c) Pufferfish</li></ul>		<ul><li>(b) Silverfish</li><li>(d) Flying fis</li></ul>		[AIPMT 2013]
21.	Select the Taxon me	entioned that represent both	marine and fro	esh water specie	es: [AIPMT 2014]
	<ul><li>(a) Echinoderms</li><li>(c) Cephalochordat</li></ul>	ta	<ul><li>(b) Ctenopho</li><li>(d) Cnidaria</li></ul>	ra	
22.	Which one of the fo	ollowing living organisms co	ompletely lack	a cell wall?	[A IDM AT 2014]
	<ul><li>(a) Cyanobacteria</li><li>(c) Saccharomyces</li></ul>		(b) Sea fan (d) Blue-gree	-	[AIPMT 2014]
23.	Planaria posses high	1 capacity of			[AIPMT 2014]
	<ul><li>(a) Metamorphosis</li><li>(c) Alternation of g</li></ul>		<ul><li>(b) Regenera</li><li>(d) Biolumin</li></ul>		
24.	A marine cartilagine	ous fish that can produce el	ectric current i	S	
	(-) <b>D</b> i-4:-		(l-) T 1-		[AIPMT 2014]

(b) Torpedo(d) Scoliodon

(a) Pristis

(c) Trygon

25.	Which of the following represents the correct combination without any exception?  [AIPMT 2015]					
	Characteristics		Class			
	<ul><li>(a) Mammary gland, hair on body pinnate t</li><li>(b) Mouth ventral, gills without operculum persistent notochord.</li></ul>	Mammalian Chondrichthyes				
	<ul><li>(c) Sucking and circular mouth laws absent paired appendages.</li></ul>	Cyclostomata				
	(d) Body covered with feathers, skin most a than wings; lungs with air sacs.	Aves				
26.	Which of the following animals is not vivipa (a) Flying fox (Bat) (b) Elephant		[AIPMT 2015] (d) Whale			
27.	Metagenesis refers to		[RE-AIPMT 2015]			
	<ul> <li>(a) Alternation of generation between asex</li> <li>(b) Occurrence of a drastic change in form</li> <li>(c) Presence of a segmented body and parth</li> <li>(d) Presence of different morphic forms.</li> </ul>	during post-embryonic deve	organism. elopment.			
28.	A jawless fish, which lays eggs in fresh water and whose ammocoetes larvae after metamor phosis return to the ocean is					
	<ul><li>(a) Myxine</li><li>(c) Petromyzon</li></ul>	<ul><li>(b) Neomyxine</li><li>(d) Eptatretus</li></ul>	[RE-AIPMT 2015]			
29.	Body having meshwork of cells, internal cavindirect developments are the characteristics					
	<ul><li>(a) Porifera</li><li>(c) Protozoa</li></ul>	<ul><li>(b) Mollusca</li><li>(d) Coelenterata</li></ul>	[RE-AIPMT 2015]			
30.	Which of the following features is not prese	ent in the Phylum – Arthropo	oda?			
	<ul><li>(a) Chitinous exoskeleton</li><li>(c) Parapodia</li></ul>	<ul><li>(b) Metameric segment</li><li>(d) Jointed appendages</li></ul>				
31.	Which of the following characteristic featur of animals?	res always holds true for the	corresponding group [NEET - I, 2016]			
	<ul><li>(a) Cartilaginous endoskeleton</li><li>(b) Viviparous</li><li>(c) Possess a mouth with an upper and a let</li></ul>	-	Chondrichthyes  Mammalia			
	<ul><li>(c) Possess a mouth with an upper and a lot</li><li>(d) 3-chambered heart with one incomplet</li></ul>	•	Chordata Reptilia			
32	Which one of the following characteristics i	•	•			
J4.	minen one of the following characteristics i	is not snared by birds and me	INEET - I 2016			

4.30 Animal Classification

(a) Ossified endoskeleton

(b) Breathing using lungs

(c) Viviparity

(d) Warm blooded nature

33. Choose the correct statement

[NEET - II, 2016]

- (a) All cyclostomes do not possess jaws and paired fins
- (b) All reptiles have a three-chambered heart.
- (c) All pisces have gills covered by an operculum
- (d) All mammals are viviparous

### **NCERT EXEMPLAR QUESTIONS**

- 1. In some animal groups, the body is found divided into compartments with at least some organs/organ repeated. This characteristic feature is named as
  - (a) Segmentation
- (b) Metamerism
- (c) Metagenesis
- (d) Metamorphosis
- Given below are types of cells present in some animals. Each one is specialized to perform a single function except
  - (a) Choanocytes
- (b) Interstitial cells
- (c) Gastrodermal cells (d) Nematocytes
- 3. Which one of the following sets of animals share a four chambered heart?
  - (a) Amphibians, Reptiles, Birds
- (b) Crocodiles, Birds, Mammals
- (c) Crocodiles, Lizards, Turtles
- (d) Lizards, Mammals, Birds
- **4.** Which of the following pairs of animals has non-glandular skin?
  - (a) Snake and Frog

(b) Chameleon and Turtle

(c) Frog and Pigeon

- (d) Crocodile and Tiger
- 5. Birds and mammals share one of the following characteristics as a common feature
  - (a) Pigmented skin

(b) Alimentary canal with some modification

(c) Viviparity

- (d) Warm blooded nature
- **6.** Which one of the following sets of animals belongs to a single taxonomic group?
  - (a) Cuttlefish, Jellyfish, Silverfish, Dogfish, Starfish
  - (b) Bat, Pigeon, Butterfly
  - (c) Monkey, Chimpanzee, Man
  - (d) Silkworm, Tapeworm, Earthworm
- 7. Which one of the following statements is incorrect?
  - (a) Mesoglea is present in between ectoderm and endoderm in Obelia.
  - (b) Radial symmetry is found in Asterias.
  - (c) Fasciola is a pseudocoelomate animal.
  - (d) Taenia is a triploblastic animal.
- **8.** Which of the following statements is incorrect?
  - (a) In cockroaches and prawns, the excretion of waste material occurs through malpighian tubules
  - (b) In ctenophores, locomotion is mediated by comb plates.
  - (c) In Fasciola, flame cells take part in excretion.
  - (d) Earthworms are hermaphrodite and yet cross fertilization takes place among them.

- **9.** Which one of the following is oviparous?
  - (a) Platypus (b) Flying fox (Bat)

(c) Elephant (d) Whale

- 10. Which one of the following is not a poisonous snake?
  - (a) Cobra (b) Viper (c) Python (d) Krait
- 11. Match the following list of animals with their level of organization.

	Division of Labour		Animal		
a.	Organ level	i.	Pheritima		
b.	Cellular aggregate level	ii.	Fasciola		
c.	Tissue level	iii.	Spongilla		
d.	Organ system level	iv.	Obelia		

Choose the correct match showing the division of labour with animal example.

- (a) (i)–(b), (ii)–(c), (iii)–(d) and (iv)–(a)
- (b) (i)–(b), (ii)–(d), (iii)–(c) and (iv)–(a)
- (c) (i)–(d), (ii)–(a), (iii)–(b) and (iv)–(c)
- (d) (i)–(a), (ii)–(d), (iii)–(c) and (iv)–(b)
- 12. Body cavity is the cavity present between body wall and gut wall. In some animals the body cavity is not lined by mesoderm. Such animals are called
  - (a) Acoelomate

(b) Pseudocoelomate

(c) Coelomate

- (d) Haemocoelomate
- 13. Match the column A with column B and choose the correct option.

	Column A		Column B			
a.	Porifera	i.	Canal system			
b.	Aschelminthes	ii.	Water-vascular			
			system			
c.	Annelida	iii.	Muscular Pharynx			
d.	Arthropoda	iv.	Jointed appendages			
e.	Echinodermata	v.	Metameres			
(a) (a)–(ii), (b)–(iii), (c)–(v), (d)–(iv), (e)–(i)						
(b) (a)–(ii), (b)–(v), (c)–(iii), (d)–(iv), (e)–(i)						
(c) (a)–(i), (b)–(iii), (c)–(v), (d)–(iv), (e)–(ii)						
(d) (a)–(i), (b)–(v), (c)–(iii), (d)–(iv), (e)–(ii)						

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Answer Keys									
				Practice	Question	ıs			
1. (d)	2. (d)	3. (c)	4. (d)	5. (d)	6. (c)	7. (d)	8. (d)	9. (d)	10. (a)
11. (d)	12. (d)	13. (a)	14. (b)	15. (d)	16. (b)	17. (c)	18. (a)	19. (b)	20. (d)
21. (d)	22. (d)	23. (b)	24. (b)	25. (b)	26. (c)	27. (d)	28. (c)	29. (a)	30. (a)
31. (d)	32. (b)	33. (c)	34. (a)	35. (a)	36. (b)	37. (b)	38. (b)	39. (c)	40. (d)
41. (d)	42. (a)	43. (d)	44. (a)	45. (d)	46. (b)	47. (b)	48. (d)	49. (c)	50. (d)
51. (c)	52. (c)	53. (d)	54. (d)	55. (b)	56. (a)	57. (c)	58. (c)	59. (c)	60. (b)
61. (b)	62. (a)	63. (c)	64. (b)	65. (c)	66. (c)	67. (c)	68. (d)	69. (c)	70. (a)
71. (d)	72. (d)	73. (a)	74. (d)	75. (b)	76. (b)	77. (a)	78. (d)	79. (d)	80. (d)
81. (c)	82. (d)	83. (b)	84. (c)	85. (b)	86. (b)	87. (d)	88. (d)	89. (c)	90. (d)
91. (c)	92. (b)	93. (a)	94. (d)	95. (c)	96. (c)	97. (b)	98. (c)	99. (c)	100. (d)
101. (c)	102. (c)	103. (d)	104. (d)	105. (c)	106. (c)	107. (d)	108. (d)	109. (a)	110. (b)
111. (d)	112. (d)	113. (c)	114. (b)	115. (c)	116. (d)	117. (c)	118. (a)	119. (d)	120. (c)
121. (d)	122. (d)	123. (b)	124. (d)	125. (a)	126. (c)	127. (c)	128. (c)	129. (c)	130. (d)
131. (c)	132. (c)	133. (d)	134. (d)	135. (d)	136. (c)	137. (d)	138. (d)	139. (b)	140. (c)
141. (d)	142. (a)	143. (d)	144. (d)	145. (c)	146. (a)	147. (b)	148. (c)	149. (d)	150. (d)
151. (d)	152. (c)	153. (c)	154. (d)	155. (c)	156. (b)	157. (c)	158. (a)	159. (c)	160. (d)
161. (d)	162. (d)	163. (d)	164. (d)	165. (c)	166. (d)	167. (a)	168. (b)	169. (a)	170. (b)
171. (a)	172. (d)	173. (b)	174. (d)	175. (b)	176. (c)	177. (b)	178. (c)	179. (c)	180. (d)
181. (b)	182. (b)	183. (c)	184. (a)	185. (d)	186. (d)	187. (c)	188. (d)	189. (d)	190. (c)
191. (d)	192. (b)	193. (d)	194. (a)	195. (d)	196. (a)	197. (c)	198. (d)	199. (b)	200. (c)
201. (b)	202. (d)	203. (d)	204. (d)	205. (c)	206. (d)	207. (d)	208. (d)	209. (d)	210. (b)
211. (d)	212. (d)	213. (b)	214. (c)	215. (a)	216. (d)	217. (d)	218. (d)	219. (c)	220. (c)
221. (d)	222. (a)	223. (d)	224. (d)	225. (d)	226. (b)	227. (d)	228. (c)	229. (d)	230. (d)
231. (c)	232. (b)	233. (b)	234. (b)	235. (b)	236. (b)	237. (c)	238. (d)		
Assertion and Reason Questions									
239. (b)	240. (b)	241. (b)	242. (b)	243. (b)	244. (c)	245. (b)	246. (d)	247. (a)	248. (c)
249. (a)	250. (b)	251. (b)	252. (b)	253. (b)	254. (a)	255. (d)	256. (a)	257. (a)	258. (a)
259. (d)	260. (a)	261. (d)	262. (a)	263. (a)	264. (a)	265. (a)	266. (a)	267. (a)	268. (a)
269. (b)	270. (a)	271. (c)	272. (a)	273. (d)					
						,•			
Previous Year Questions									
1. (d)	2. (d)	3. (c)	4. (a)	5. (a)	6. (c)	7. (c)	8. (d)	9. (a)	10. (c)
11. (a)	12. (d)	13. (b)	14. (a)	15. (c)	16. (a)	17. (a)	18. (c)	19. (c)	20. (b)
21. (d)	22. (b)	23. (b)	24. (b)	25. (b)	26. (c)	27. (a)	28. (c)	29. (a)	30. (c)
31. (a)	32. (c)	33. (a)							
NCERT Exemplar Questions									
1. (b)	2. (b)	3. (b)	4. (b)	5. (d)	6. (c)	7. (c)	8. (a)	9. (a)	10. (c)
11. (c)	12. (b)	13. (c)	. (-)	(3)	. (-)	(-)	. (3)	()	., (-)
(-)	. (-)	(-)							