## **ANIMAL PHYLA**

## NON- CHORDATE ANIMAL PHYLA

L.	which of the follow	ing is not a correct si	tatement w.r.t sponge	S:
	a) In sponges, cells a	re arranged as loose co	ell aggregates	
	b) They exhibit cellu	lar level of organization	on	
	c) All are sessile			
	d) They are exclusive	ely found in marine wa	ater	
2.	Sponges have a wat	er transport or canal	system. This pathway	y of water transport is
	helpful in all, excep	t		
	a) In food gathering		b) Respiratory excha	nge
	c) Removal of waste		d) Locomotion	
3.	Most sponges exhib	it:		
	a) Radial symmetry	b) bilateral symmetry	y c) spherical symmetr	ry d) asymmetry
4.	The type of digestio	n seen in sponges is.		
	a) Intercellular	b) Extracellular	c) intracellular d) No	n-cellular
5.	Which one of the fo	llowing is a fresh wat	ter sponge?	
	a) Sypha	b) Euplectella	c) Euspongia	d) Spongilla
5.	Sexually sponges ar	e		
	a) Unisexual	b) hermaphrodites	c) dioecious	d) Non-sexual
7,	<b>Totipotent cells in s</b>	ponges are:		
	a) choanocytes	b) trophocytes	c) porocytes	d) Archaeocyts
8.	Which of the follow	ving is commonly kno	own as brain coral?	
	a) Heliopora	b) Meandrina	c) Hippospongia	d) Adamsia
€.	Which of the follow	ing is not a character	ristic feature of phylu	m Ctenophora?
		ely marine, radially sy		
		5	to form eight meridian	•
		•	two in number and con	tain cnidoblasts
	, ·	es place only by sexual		
10.			tary canal is complete	e with a well-developed
	muscular pharynx?			
	a) Ascaris	b) Taenia	c) Planaria	d) Fasciola

11.	Which of the following worm is found in the caecum, colon or vermiform appendix of						
	human being and	is more common in ch	ildren?				
	a) Wuchereria	b) Ancylostoma	c) Enterobius	d) Trichinella			
12.	Water vascular s	ystem is a distinctive fea	ature of phylum Ech	inodermata, this system			
	helps in						
	a) Locomotion		b) Capture and transport of food				
	c) Respiration		d) All of these				
13.	Chemical nature	of pearl is					
	a) CaCO <sub>3</sub>	b) CaSO <sub>4</sub>	c) Chitin	d) Silica			
14.	Infection of hook	worm occurs through					
	a) Measled pork		b) Contaminated fo	od/drink			
	c) Bare foot, while	walking on soil	d) Bite of mosquito				
15.	Tube feet/podia o	f the echinoderm is rela	ated to				
	a) Locomotion	b) Respiration	c) Excretion	d) All of these			
16.	The invertebrate group having Enterocoel and Deuterostomia condition is						
	a) Arthropoda	b) Echinodermata	c) Mollusca	d) Annelida			
17.	Mark the correct	match					
	a) Brittle star – Au	ricularia	b) Feather star – Op	phiopluteus			
	c) Sea star – Dolio	laria	d) Sea urchin – Ech	inopluteus			
18.	Which of the following is incorrectly matched?						
	a) Sponging type		- House fly				
	b) Chewing and la	pping type	- Honey bees				
	c) Siphoning type		- Butterflies and moths				
	d) Piercing and su	cking	- Grasshoppers				
19.	In which class of phylum Echinodermata anus is absent, mouth and madreporite are						
	present on oral surface?						
	a) Asteroidea	b) Ophiuroidea	c) Holothuroidea	d) Crinoidea			
20.	Eutely is related	with					
	a) Taenia solium	b) Ascaris	c) Sabella	d) Fasciola			
21.	Which of the follo	owing is given a status o	of a phylum under n	on-Chordata by recent			
	taxonomists?						
	a) Urochordata	b) Cephalochordata	c) Hemichordata	d) Tunicata			

22.	Assertion (A): Echinoderms have water vascular system which is of enterocoelic orgin						
	Reason (R): Duri	ing metamorphosis, a	bilaterally symmetric	cal larva transforms into a			
	radially symmeti	rical adult.					
	a) If both A & R a	are true and the reason is	s the correct explanati	on of the A			
	b) If both A & R are true, but the reason is not the correct explanation of the A						
	c) If A is true state	ement, Reason is false	d) If, both A and F	R are false statements			
23.	Find out the miss	matched pair					
	a) Limulus – Connecting link between annelids and arthropods						
	b) Locusta – Greg	arious pest					
	c) Julus – Worm l	ike with 2 pair of legs of	on each abdominal seg	ment			
	d) Scolopendra – Each body segment with 1 pair of legs and first pair of legs are modified into						
	poison claws						
24. V	Which one of the fol	lowing acts as a chemo	oreceptor organ for t	esting the chemical nature			
and	pH of water in moll	uscs like Pila					
	a) Statocyst	b) Radula	c) Osphradium	d) Ctenidium			
25.	Which of the follo	owing is not a matchin	g set of class and its t	three examples?			
	a) Crustacea – Pal	aeomon, Cancer, Astac	us				
	b) Arachinida – A	ranae, Sarcoptes, plaem	nneus				
	c) Insecta – Glow	worm, ship worm, blin	d worm				
	d) Diplopoda - Jul	lus, Spirobolus & Spiros	streptus				
26.	Which of the foll	owing is a common ch	aracteristic of earthy	worm, prawn and cockroach?			
	a) Cutaneous resp	iration	b) Metameric segr	mentation			
	c) Chitinous exosl	keleton	d) Open circulator	y system			
27.	Which one is mis	matched?					
	a) Apis -	Honey bee	b) Tachardia -	Lac insect			
	c) Locusta -	Gregarious pest	d) Limulus -	Fossil arthropod			

28. Match the generic name listed under column-I with the common name given under column-II. Choose the answer which gives the correct combination of the alphabets of the two columns:

Column- I ( Genus)	Column- II ( Common name)
A. Millepora	p. sea wasp
B. Pennatula	q. Blue coral
C.Heliopora	r. Sea pen
D. Chiropsalmus	s. Stinging coral

a) $A = s, B = 0$	$I_{1}, C = r_{1}, D = r_{2}$
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b) 
$$A = q$$
,  $B = r$ ,  $C = s$ ,  $D = p$ 

c) 
$$A = s$$
,  $B = r$ ,  $C = q$ ,  $D = p$ 

d) 
$$A = r$$
,  $B = q$ ,  $C = s$ ,  $D = p$ 

29.	Which of the following possesses a hard exoskeleton formed by calcium carbonate?
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- a) Aurelia
- b) Physalia
- c) Corallium
- d) Halistemma

#### 30. Assertion (A): Metagenesis is exhibited by hydra and Aurelia

**Reason** (**R**): Metagenesis in Hydra and Aurelia is like that of alternation of generation in plants

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements

#### 31. In the ommatidium of cockroach the primary pigmented cells are formed by

a. semper cells b.retinular cells

c,rhabdomeres

d.lenticular cells.

#### 32. Solenocytes are associated with:

- a) Nutrition
- b) excretion
- c) respiration
- d) reproduction

#### 33. Parasitic animals have well-developed:

- a) Respiratory system b) digestive system
- c) reproductive system d) excretory system

#### 34. What is common amongst tapeworm, liver fluke and planarian?

a) They are all segmented

- b) They all have a coelom
- c) They are all found in gut
- d) They all have flattered body

#### 35. Alimentary canal is absent in:

- a) Cestoda
- b) Nematoda
- c) Gastropoda
- d) Pelecypoda

#### 36. Anus is absent in:

a) Unio & Fasciola

- b) Fasciola & Ophiothrix
- c) Phetetima & Gorgonocephalus
- d) Periplanata & Phetetima

37.	In the life – history	of liver fluke one comes across the following stages:				
	1. Cercaria	2. Metacercari	ia			
	3. Miracidium	4. Radia	5.Spor	rocyst		
	Which of the following	ng is the proper	sequen	ce in its life- hi	story?	
	a) 3-5-4-2-1	b) 3-5-1-2-4		c) 3-5-4-1-2		d) 3 – 5- 4 -2-1
38.	In which of the anin	nals female live	es in ma	ale?		
	a) Bonellia	b) Schistosom	ıa	c) Both (a) &	(b)	d) none of these
39.	Eggs of cockroach a	re fertilized in	:			
	a) Cocoon	b) ootheca	c) Fall	opian tube	d) gen	ital pouch of female
40.	Embryonated egg of	f Ascaris is:				
	a) An egg with gastru	ıla		b) an egg with	ovum	
	c) An egg with blastu	ıla		d) an egg with	juveni	le
41.	The route through v	vhich the devel	lopmen	tal stages of A	scaris s	erially pass in man
	includes				,	
	a) Outside → intestin	$e \rightarrow liver \rightarrow he$	eart → l	ung → intestin	e → ou	t side
	b) Outside → traches	$a \rightarrow lung \rightarrow he$	art → li	ver → intestine	e → out	side
	c) Outside $\rightarrow$ oesoph	agus → stomac	$h \rightarrow he$	$art \rightarrow lung \rightarrow l$	neart $\rightarrow$	trachea → outside
	d) Outside → stomac	h → oesophagu	ıs→ hea	$art \rightarrow lung \rightarrow tr$	rachea -	→ outside
42.	Study the following	with reference	to bod	y wall in cockı	oach.	
	1. Exocuticle 2.layer	of polyphenols	3.lipop	rotein layer 4.w	ax laye	er.
	Arrange the above la	yers from the in	nermos	t to the outerme	ost laye	rs
	A.3-2-1-4.	b.1-2-3-4		c. 1-2-4-3		d.3-4-2-1
43.	Parapodia are found	d in:				
4	a) Hirudinea	b) Polychaeta		c) Oligochaeta	ı	d) Arthropoda
44.	Titillator in cockroa	ch is borne by	:			
	a) Ovipositor	b) left Phallon	neres	c) ventral Pha	llomere	s d) right phallomere
45.	In Pheretima, the ce	ells that are an	alogous	to hepatic cel	ls of ve	rtebrates are:
	a) Amoeboid cells	b) circular cel	ls	c) mucous cel	ls	d) chloragogen cells

## Mock test Question paper in Non Chordate Animal Phyla KEY

1) d	2) d	3) d	4) c	5) c	6) b	7) d	8) b	9) c	10) a
11) c	12) d	13) a	14) c	15) d	16) b	17) d	18) d	19) b	20) b
21) c	22) b	23) a	24) c	25) c	26) b	27) d	28) c	29) c	30) d
31) b	<b>32</b> ) b	33) c	34) d	35) a	36) b	37) c	38) b	39) d	40) a
41) a	42) b	43) b	44) b	45) d					

## QUESTION BANK EXERCISE -3

# 01. Which of the following is not a match between the protozoan and its locomotor organelles?

oi gan	ciics.			4				
	Protozoans	Locon	notory organs					
	a) Trypanosoma	-	Flagellum					
	b) Paramecium	-	Cilia		<i>y</i>			
	c) Giardia	-	Flagella					
	d) Monocystis	-	Pseudopodia					
02.	Organism that does	not bel	ong to class m	astigophora is				
	a) Trypanosoma		b) Trichomon	as				
	c) Leishmania	4	d) Balantidiui	m				
03.	Which of the followi	ing type	of cell of por	iferans provide food	to the developing cells and			
are	called nurse cells?							
	a) Scleroblasts	b) Myo	ocytes	c) Gland cells	d) Trophocytes			
04.	Which of the following statement is an incorrect w.r.t sponge?							
	a) All sponges are aq	uatic		b) They are primitive	e multicellular			
	c) Digestion is extrac	ellular		d) Paragastric cavity	is present			
05.	Cliona is the boring	sponge	which can pe	netrate the rocks and	d break them into pieces. It			
	belongs to							
	a) Calcarea	b) Hex	actinellida	c) Calcispongiae	d) Demospongiae			
06.	Siliceous spicules wh	nich are	triaxon with	six rays are present	in			
	a) Calcarea	b) Hex	actinellida	c) Demospongiae	d) Euspongia			
07.	Assertion (A): Parai	mecium	is a surface f	eeder				
	Reason (R): Nutrition	n is holo	ozoic in Param	ecium				
	a) If both A & R are t	rue and	the reason is t	he correct explanation	of the A			
	<i>'</i>			not the correct explana				

c) If A is true statement, Reason is false

d) If both A and R are false statements

08.	Assertion (A): Sponges reproduce asexually by fragmentation and sexually by the
forma	ation of gametes

00.	rissertion (11). Spon	iges reproduce asexu	any by magnicination	i and sexually by the				
forma	tion of gametes							
	Reason (R): In sponges fertilization is internal and development is indirect having a larval							
stage	which is morphologically distinct from adult							
	a) If both A & R are	true and the reason is	the correct explanation	n of the A				
	b) If both A & R are true, but the reason is not the correct explanation of the A							
	c) If A is true statem	ent, Reason is false						
	d) If both A and R ar	re false statements						
09.	Which of the follow	ing is commonly kno	wn as brain coral?					
	a) Heliopora	b) Meandrina	c) Hippospongia	d) Fungia				
10.	Which of the follow	ing cells are present	in the endoderm of H	lydra, but not in epidermis?				
	a) Cnidoblasts and in	nterstitial cells						
	b) Glandular cells an	d endothelio-muscular	nutritive cells					
	c) Cnidoblasts and go	erm cells						
	d) Interstitial cells ar	nd sensory cells						
11.	<b>Choose the correct</b>	match						
	a) Adamisa – Blue co	oral	b) Pennatula	– Sea pen				
	c) Gorgonia – Organ	pipe coral	d) Beroe – V	enus girdle				
12.	Which of the follow	ing is/are exclusively	marine, radially syn	nmetrical and diploblastic?				
	a) Pleurobranchia	b) Hydra	c) Ctenoplana	d) Both 1 & 3				
13.	Which of the follow	ing stages in the life	cycle of Fasciola hepa	atica infects the primary and				
	secondary hosts res	pectively?						
	a) Miracidium, redia		b) Metacercaria, mir	racidium				
	c) Miracidium, cerca	ria	d) Cercaria, metacer	rcaria				
14.		g organisms, which o	-					
	a) Taenia	b) Schistosoma	c) Planaria	d) Fasciola				
15.	Which of the follow	ing organism is not f	ree living?					
	a) Rhabditis	b) Planaria	c) Ancylostoma	d) Pheretima				
16.	Assertion (A): In fla	atworms, flame cells a	are meant for excreti	on and osmoregulation				
	Reason (R): In flaty	worms, ammonia is th	e chief excretory wa	ste product				
	a) If both A & R are	true and the reason is	the correct explanation	n of the A				
	b) If both A & R are	true, but the reason is	not the correct explan	ation of the A				
	c) If A is true statem	ent, Reason is false						
	d) If both A and R are false statements							

Assertion (A): In annelids, neural system consists of paired ganglia connected by lateral **17.** nerves to a double ventral nerve cord.

Reason (R): Nereis possesses lateral appendages, parapodia which help in swimming

a) If both A & R are true and the reason is the correct explanation of the Ab) If both A & R are true, but the reason is not the correct explanation of the A

c) If A is true statement, Reason is falsed) If both A and R are false statements

18.	Assertion (A): Hi	rudinaria is blood suck	king leech	
		nibits bilateral symmet	_	n
		re true and the reason is	-	
	,	re true, but the reason is	•	
		ment, Reason is false		are false statements
19.	ŕ	in earthworm help in	· • • • • • • • • • • • • • • • • • • •	
	a) Cutaneous respin	_		on of blood cells
	c) Excretion			digestion like liver
20.	Find the odd one	w.r.t ctenophore		
	a) Polyp phase is a			
	, , , ,	netrical without cnidoble	asts	
		present contain collobla		
	d) Asexual reprodu			
21.	· -	wing has nerve cells b	ut no brain?	
	a) Hydra	b) Sponge	c) Cockroach	d) Mosquito
22.	Digestion in spong		,	, 1
	a) Extra-cellular		b) intra-cel	lular
	c) Both extra-cellu	lar and intra-cellular	d) in Parag	astric cavity
23.	Open type circula		, C	·
	a) Earthworm and		b) Earthworm and	Pila
	c) Pila and Leech		d) Earthworm and	Octopus
24.	Which of the follo	wing is not the correct	t match regarding th	ne animal and its larva?
	a) Pila – Veliger la	rva	b) Neopilina – Tro	chophore
	c) Obelia – Planula	ı	d) Fasciola – Cysti	cercus larva
25.	Tube feet/podia of	f the echinoderm is rel	ated to	
	a) Locomotion	b) Respiration	c) Excretion	d) All of these
26.	Halters in mosqui	toes and housefly are	associated with	
	a) Prothorax	b) Mesothorax	c) Metathorax	d) Head
		www.sakshi	education.com	

27.	Starfish belongs to asteroidean of	lass. Mark cor	rect characte	ers related to starfis	h from		
	those given below						
	a) Respiration by dermal branchae	and tube feet	b) Shows a	autonomy of arms			
	c) Bipinnaria larva		d) Presence	e of pedicellariae			
	a) Only c b) c & d	c) a,	c & d	d) a, b, c & d			
28.	The invertebrate group having e	nterocoel and	deuterostom	ic condition is			
	a) Arthorpoda b) Echinode	rmata c) M	ollusca	d) Annelida			
29.	Mark the correct match						
	a) Cydippid – Jelly fish		b) Trochor	ohore – Acorn worm			
	c) Glochidium – Fresh water muss	el	d) Brachio	laria – Brittle star			
30.	The cephalothorax bears simple	eyes and six pa	airs of appen	dages and antenna a	are absent		
	in the class		<b>4</b> . <b>C</b>				
	a) Arachnida b) Insecta	c) Crustacea		d) Annelida			
31.	Match the following						
	Column-1	Column-2					
	a) Schistosoma	i) Protrusible	e pharynx				
	b) Fasciola ii) polymbryony						
	c) Dugesia	iii) Dog tape					
	d) Echinococous	iv) Dioeciou	IS				
	a) a(i), b(ii), c(iii), d(iv)	<b>(</b> )	a(iv), b(ii), c(i), d(iii)				
	c) a(iv), b(iii), c(ii), d(i)	•	iii), b(iv), c(i)				
32.	In which class of phylum enchin	odermata anus	s is absent, m	outh and madrepor	ite present		
	on oral surface?						
	a) Asteroidea b) Ophiuroi	, in the second second	olothuroidea	d) Crinoidea			
33.	Chemically pearls contain calciu	m carbonate a	and are secre	ted by mantle of Pin	ctada		
	when						
	a) Attacked by enemies						
	b) Stimulated by some silica or oth	-	parasites				
	c) Starvation occurs for a long period						
	d) More food is available						
34.	Which of the following is not a c	naracteristic fe	eature of ann	elids?			
	a) The body is covered by definite	cuticle secreted	d from the ect	oderm			
	b) The body wall of annelids has b	oth longitudina	and circular	muscles			
	c) In soft bodied earthworms, with	a segmented be	ody, there is a	separate coelom in e	ach		
	segment. Here it acts as a hydraulic skeleton						

	d) Polychaetes are monoclous. Larva is typic	cai trochophore				
35.	Assertion (A): In sponges Archaeocytes a	re totipotent in nature				
	Reason (R): Archaeocytes are undifferent	iated cells which are able to develop into all				
	type of cells					
	a) If both A & R are true and the reason is the	ne correct explanation of the A				
	b) If both A & R are true, but the reason is n	ot the correct explanation of the A				
	c) If A is true statement, Reason is false					
	d) If both A and R are false statements					
36.	Which of the following has proboscis supp	ported by a buccal diverticulum?				
	a) asidian b)lancelet c)acorn worm	d) Salpa				
37.	Which of the following are the common of	characters of all arthropods?				
	a) Head, thorax and abdomen b) Chir	tinous, exoskeleton and jointed appendages				
	c) Malpighian tubules and jointed appendag	es d) Tracheal system and green glands				
38.	Torsion is a characteristic of					
	a) Gastropods only b) Cep	halopods only				
	c) Gastropods and cephalopods d) All	molluscs				
39.	Find out the incorrect statement w.r.t. Ar	thropods				
	a) Adult culex and Anopheles can be distinguished with the help of sitting posture					
	b) Halteres are second pair of reduced wings	s of housefly and mosquito which help in balancing				
	c) Spider spins the web by means of a secret	ion of abdominal glands				
	d) Blood helps in transportation of O <sub>2</sub> and C	O <sub>2</sub> within the body in insects				
40.	Which of the following is a common chara	acteristic of earthworm, prawn and cockroach?				
	a) Cutaneous respiration	b) Metameric segmentation				
	c) Chitinous exoskeleton	d) Open circulatory system				
41.	Which of the following character is evolved	ed for the first time in phylum annelida?				
	<ul><li>a) Organ-system level of body organization</li><li>c) Triploblastic</li></ul>	b) Bilateral symmetry d) Metameric segmentation				
42.	/ <b>1</b> 1007 .2000b. <b>1</b>	d ganglia connected by lateral nerves to nerves				
4	cord. The nerve cord is/are	h) Double dersel and bellow				
	<ul><li>a) Double, ventral and solid</li><li>c) Single, ventral and hollow</li></ul>	<ul><li>b) Double, dorsal and hollow</li><li>d) Single, ventral and solid</li></ul>				
43.	Which one is mismatched?	, ,				
	a) Nereis - Chloragogen cells	b) Earthworm - Citellum				
	c) Leech - Botryoidal tissue	d) Nereis - Trochophore larva				
44.	In Mollusca the space between the hump	and the mantle is called				
	a) Pleral cavity containing lungs	b) Pericardial cavity containing heart				
	c) Haemocoel containing blood	d) Mantle cavity containing gills				
45.	Assertion (A): Nereis shows indirect deve	lopment				
	Reason (R): Life cycle includes trochopho	ore larva				

a) If both A & R are true and the reason is the correct explanation of the A

	b) If both A & R	are true, but the reaso	n is not the correct exp	olanation of the A
	c) If A is true star			
	d) If both A and l	R are false statements		
46.	Which of the fol	lowing insect is not b	eneficial to man?	
	a) Locusta	b) Apis	c) Bombyx	d) Laccifer
·				
<b>47.</b>	Some characters	s with reference to ar	rthropods are given b	elow, mark wrong one
	a) Circulatory sys	stem is of open type		
	b) Mostly dioecic	ous		
	c) Mostly ovipard	ous with external ferti	lization	
	d) Development	may be direct or indire	ect	
48.	Which of the fol	lowing match is inco	rrect?	
	a) Peripatus – Ne	phridia	b) Limulus – Bo	ook gills
	c) Scorpion – Bo	ok lungs	d) Crab – Malpi	ghian tubules
49.	Which of the fol	lowing match is inco	rrect w.r.t animal an	d their larval form?
	a) Silk worm – C	atepillar	b) Beetle – Grul	)
	c) Housefly – Ma	iggot	d) Anopheles –	Mysis
50.	Mark the odd or	ne		
	a) Bombyx	b) Musca	c) Teredo	d) Periplaneta
51.	Which of the fol	lowing organism is v	riviparous?	
	a) Cockroach	b) Scorpion	c) Prawn	d) Leptocorisa
52.	Select the incorr	ect statement regard	ling arthropods	
	a) In land arthrop	oods, fertilization is in	ternal	
	b) In all arthropo	ds the body is divided	into head, thorax and	abdomen
	c) The heart is do	orsal and the circulator	ry system is open	
	d) These are tripl	oblastic and schizocoe	elomate organisms	
53.	In which of the	following polyp stage	e is absent in their life	e cycle. They are radially
	symmetrical dev	oid of cnidoblasts bu	ıt contain colloblasts,	, and exhibit bioluminescence
	a) Aurelia and Vo	ellala	b) Physalia and	Homiphora
	c) Meandrina and	l Madrepora	d) Ctenoplana a	nd Cestrum
54.	Metagenesis is u	sually distinct in the	following cnidarian	animals, except
	a) Obelia	b) Hydra	c) Physalia	d) Aurelia
55.	Which of the fol	lowing cells are not i	present in the gastrod	lermal laver of Hydra?

	a) Nerve cell	b) Interstitial cell	c) Gland cell	d) Cnidoblast cell
56.	'Lasso' present	t in the nematoblasts of H	lydra is meant for	
	a) Ejection of th	e thread tube	b) Uncoiling of the	read tube
	c) Preventing de	etachment of nematocyst fr	om nematoblast	
	d) Opening of o	perculum		
57.	A unicellular g	reen alga Zoochlorellae n	nakes symbiotic asso	ociation with Chlorohydra
	viridissima. Th	is alga is present		
	a) In the gastrov	ascular cavity		
	b) With mesente	eries separating the gastrov	ascular cavity	
	c) In interstitial	space	<b>4.</b> (C	
	d) in gastroderm	nal cells		
58.	Which of the fo	ollowing ctenophore is con	mmonly known as tl	he Venus girdle?
	a) Homiphora	b) Pleurobrachia	c) Ctenoplana	d) Cestum
59.	Type of symme	etry present in the larval	forms of echinodern	ns is
	a) Radial	b) Biradial	c) Bilateral	d) Asymmetrical
60.	Which of the fo	ollowing are pincer like st	ructures and keep t	he body surface clear of
	debris and min	ute organisms?		
	a) Papulare	b) Dermal branchiae		d) Madreporite
61.	4	ern is a masticatory appa	_	
	a) Crinoidea	b) Echinus	c) Ophiothrix	d) Antedon
62.		ollowing are members of		
		peaster, Pentaceros	b) Echinus, Ophiu	
		taceros, Astropecten	d) Holothuria, Ant	
63.		_	ls for respiration, pr	oboscis gland for excretion
	and external fe		\ <b>.</b>	1) P
	a) Echinus	b) Cucumaria	c) Balanoglossus	d) Pentaceros
64.				ich is armed with rows of
		but radula is absent in w		
- <b>-</b>	a) Pila	b) Unio	c) Doris	d) Limax
65.		ollowing phylum is second		1) 77 11 1
	a) Arthropoda	b) Mollusca	c) Annelida	d) Echinodermata
66.		ollowing statement is/are		cs?
	a) Body is gener	rally covered with calcared	ous sneii	

	b) Body is gene	erally unsegmented w	vith distinct head, mu	scular foot and viscera	l hump
	c) Molluscs ge	nerally have rasping o	organ for feeding call	led radula	
	d) All of these				
<b>67.</b>	Which of the f	following is not a cha	aracteristic of phylu	m Annelida?	
	1) Metamerical	lly segmented body	2) Coeloma	te condition	
	3) Only longitu	idinal muscles for loc	comotion 4) Double v	entral nerve cord	
	a) 1 only	b) 3 only	c) 2 & 3 onl	y d) 3 & 4 onl	у
68.	Which of the f	following cannot be	considered as advar	cement of annelids ov	ver
	nematodes?				
	a) Metameric s	egmentation	b) Longitudinal and	l circular muscles for lo	ocomotion
	c) Tube within	tube body plan	d) Closed circulator	ry system	
			<b>A</b>		
69.	Which of the f	following nematode	is monogenetic and	is found in small intes	stine?
	a) Ascaris lumb	bricoides	b) Ancylost	oma duodenate	
	c) Enterobius		d) Both 1 &	2	
70.	Animals havin	ng soft, unsegmented	I body with a distinc	ct head, muscular foot	and visceral
	hump belong	to phylum			
	a) Annelida	b) Arthropoda	a c) Mollusca	d) Echinode	rmata
71.	Which of the f	following animals is	not dioecious?		
	a) Ascaris	b) Wuchereria	a c) Nereis	d) Earthwor	m
72.	· · ·	Pearls are made up		nte	
		hey are secreted by			
		R are true and the rea	•		
				t explanation of the A	
		tatement, Reason is f	,	and R are false statem	
73.				iva contains anticoag	•
		-		g blood meal in Hirud	inaria
> \ \		R are true and the rea	-		
				t explanation of the A	
	,	tatement, Reason is f			
		d R are false statemen			
74.		Gastropods body is	•		
			-	luring development th	ne body twists
	-	t the body becomes	-		
	a) If both A &	R are true and the rea	ison is the correct exp	planation of the A	

b) If both A & R are true, but the reason is not the correct explanation of the A

	c) If	A is true	statement, Re	ason is t	false					
	d) If	both A a	nd R are false	stateme	nts					
<b>75.</b>	Whic	ch of the	following act	s as a d	istingu	ishing	charac	ter bet	ween Per	riplanata and
Blatta	1?									
	a) An	al style							b) Ana	al cerci
	c) Re	duced w	ings in <b>Blatta</b>	while d	evelop	ed in <b>P</b>	eriplan	ata		d) reverse of abo
<b>76.</b>	If con	rpora al	lata are remo	ved fro	m 1 <sup>st</sup> iı	ıstar ol	f a nym	ph, the	en:	
	a) Du	ration o	f stadia increas	ses						
	b) It	will rem	ain nymph fore	ever			<b>A</b>			
	c) It	will bec	ome adult imm	nediately	ý		T.			
	d) It	will ente	r into seconda	ry stage	of juve	enile				
77.	Stud	y the fol	lowing							
	A. sp	oider		1.uri	c acid					
	B. pra	awn		2. N	H <sub>3</sub>					
	C. Ea	ırth worı	n	3.guanine.						
	D.sil	ver fish	4	4.urea.						
			(	Choo	se the	correct	set of n	natchin	g	
		A	B C	D	<b>3</b> ************************************	A	В	C	D	
	a)	3	4 1	2	b)	4	3	2	1	
	c)	2	1 3	4	d)	3	2	4	1	
78.	Cellu	ılase is s	ecreted by the	e micro	bes liv	ing in				
	a. cro	p	b. Gizzard		c. r	nesente	eron	d. pi	roctodaeu	m.
<b>79.</b>	The	number	of alary musc	cles and	the nu	ımber	of chan	nber pi	resent in	the heart of
cockr	oach a	re	respectively	:						
	a. 12	& 13	b.12pairs &1	3 c	.10& 1	2			d.128	t 13 pairs.
80.	The 1	muscles	that help in tl	he brea	thing r	novem	ents in	cockro	ach are	
	a. adductor and alary muscles				b. de	b. dorsoventral &longitudinal muscles				
	c. ter	gosterna	l & alary musc	eles		d. lo	d. longitudinal& abductor muscles.			uscles.

#### **UNIT-III:: INVERTEBRATE PHYLA Question Bank key**

1) d	2) d	3) d	4) c	5) d	6) b	7) b	8) b	9) b	10) b
11) b	12) d	13) b	14) c	15) c	16) b	17) b	18) c	19) c	20) d
21) a	22) b	23) c	24) d	25) d	26) c	27) d	28) b	29) c	<b>30</b> ) a
31) b	<b>32</b> ) b	33) b	34) d	35) a	36) c	37) b	38) a	39) d	40) b
41) d	<b>42</b> ) a	43) a	44) d	45) a	46) a	47) c	48) d	49) d	50) c
51) b	52) b	53) d	54) b	55) d	56) c	57) d	58) d	59) c	60) c
61) b	62) c	63) c	64) b	65) b	66) d	67) b	68) c	69) d	70) c
71) d	72) c	73) a	74) c	75) c	76) b	77) d	78) d	79) b	80) b

## **ANIMAL PHYLA**

#### MOCK NEET PAPER IN NON- CHORDATE ANIMAL PHYLA

Answer all 45 Questions each correct response fetches 4 marks; total: 180 marks, time: 45 minutes each wrong answer reduces '1' mark from total score.

- 1. Which of the following is not a correct statement w.r.t sponges?
  - a) In sponges, cells are arranged as loose cell aggregates
  - b) They exhibit cellular level of organization
  - c) All are sessile
  - d) They are exclusively found in marine water
- 2. Sponges have a water transport or canal system. This pathway of water transport is helpful in all, except
  - a) In food gathering

b) Respiratory exchange

c) Removal of waste

d) Locomotion

- 3. Most sponges exhibit:
  - a) Radial symmetry b) bilateral symmetry c) spherical symmetry d) asymmetry
- 4. The type of digestion seen in sponges is.
  - a) Intercellular
- b) Extracellular
- c) intracellular d) Non-cellular
- 5. Which one of the following is a fresh water sponge?

	a) Sypha	b) Euplectella	c) Euspongia	d) Spongilla
6.	Sexually sponges a	are		
	a) Unisexual	b) hermaphrodites	c) dioecious	d) Non-sexual
7,	<b>Totipotent cells in</b>	sponges are:		
	a) choanocytes	b) trophocytes	c) porocytes	d) Archaeocyts
8.	Which of the follo	owing is commonly kn	own as brain coral?	
	a) Heliopora	b) Meandrina	c) Hippospongia	d) Adamsia
9.	Which of the follo	wing is not a characte	eristic feature of phyl	um Ctenophora?
	a) They are exclusi	vely marine, radially sy	ymmetrical animals	
	b) They move by c	ilia, which join togethe	r to form eight meridi	an comb plates
	c) When the tentac	les are present they are	two in number and co	ontain cnidoblasts
	d) Reproduction tal	kes place only by sexua	al means	
10.	In which of the fol	llowing animal, alime	ntary canal is comple	ete with a well-developed
	muscular pharyn	x?		
	a) Ascaris	b) Taenia	c) Planaria	d) Fasciola
11.	Which of the follo	wing worm is found in	n the caecum, colon o	or vermiform appendix of
	human being and	is more common in ch	nildren?	
	a) Wuchereria	b) Ancylostoma	c) Enterobius	d) Trichinella
12.	Water vascular sy	stem is a distinctive fo	eature of phylum Ecl	ninodermata, this system
	helps in			
	a) Locomotion		b) Capture and trar	nsport of food
	c) Respiration		d) All of these	
13.	Chemical nature	of pearl is		
	a) CaCO <sub>3</sub>	b) CaSO <sub>4</sub>	c) Chitin	d) Silica
14.	Infection of hook	worm occurs through		
	a) Measled pork		b) Contaminated for	ood/drink
	c) Bare foot, while	walking on soil	d) Bite of mosquito	)
15.	Tube feet/podia of	f the echinoderm is re	lated to	
	a) Locomotion	b) Respiration	c) Excretion	d) All of these
16.	The invertebrate	group having Enteroc	oel and Deuterostom	ia condition is
	a) Arthropoda	b) Echinodermata	c) Mollusca	d) Annelida
<b>17.</b>	Mark the correct	match		
	a) Brittle star – Au	ricularia	b) Feather star – O	phiopluteus
	c) Sea star – Doliol	laria	d) Sea urchin – Ecl	hinopluteus
18	Which of the follo	wing is incorrectly me	atched?	

	a) Sponging type		- House fly						
	b) Chewing and lap	ping type	- Honey bees						
	c) Siphoning type		- Butterflies and mo	oths					
	d) Piercing and such	king	- Grasshoppers						
19.	In which class of p	hylum Echinodermata	anus is absent, mou	th and madreporite are					
	present on oral sur	rface?							
	a) Asteroidea	b) Ophiuroidea	c) Holothuroidea	d) Crinoidea					
20.	Eutely is related w	rith							
	a) Taenia solium	b) Ascaris	c) Sabella	d) Fasciola					
21.	Which of the follow	wing is given a status o	f a phylum under no	on-Chordata by recent					
	taxonomists?								
	a) Urochordata	b) Cephalochordata	c) Hemichordata	d) Tunicata					
			+ 0						
22.	Assertion (A): Echinoderms have water vascular system which is of enterocoelic orgin								
	Reason (R): During metamorphosis, a bilaterally symmetrical larva transforms into a								
	radially symmetric								
	<ul><li>a) If both A &amp; R are true and the reason is the correct explanation of the A</li><li>b) If both A &amp; R are true, but the reason is not the correct explanation of the A</li></ul>								
			•						
••	· · ·	ment, Reason is false	d) If, both A and R	are false statements					
23.	Find out the mism	-							
	a) Limulus – Connecting link between annelids and arthropods								
	4	b) Locusta – Gregarious pest							
		<ul> <li>c) Julus – Worm like with 2 pair of legs on each abdominal segment</li> <li>d) Scolopendra – Each body segment with 1 pair of legs and first pair of legs are modified into</li> </ul>							
		ach body segment with	I pair of legs and firs	t pair of legs are modified into					
24 37	poison claws								
		wing acts as a chemore	eceptor organ for te	sting the chemical nature					
and p	•	19 D9-							
	of water in mollus		a) Olli	1) ((: 1:					
25	a) Statocyst	b) Radula	c) Osphradium	d) Ctenidium					
25.		ving is not a matching		ree examples?					
		eomon, Cancer, Astacus							
	o) Arachinida – Ara	anae, Sarcoptes, plaemn							
		www.5dK5ille	ducation.com						

- c) Insecta Glow worm, ship worm, blind worm
- d) Diplopoda Julus, Spirobolus & Spirostreptus

26. Which of the following is a common characteristic of earthworm, prawn and cockroach?

a) Cutaneous respiration

b) Metameric segmentation

c) Chitinous exoskeleton

d) Open circulatory system

27. Which one is mismatched?

- a) Apis
- Honey bee
- b) Tachardia Lac insect

- c) Locusta
- Gregarious pest
- d) Limulus
- Fossil arthropod

28. Match the generic name listed under column-I with the common name given under column-II. Choose the answer which gives the correct combination of the alphabets of the two columns:

Column- I ( Genus)	Column- II ( Common name)
A. Millepora	p. sea wasp
B. Pennatula	q. Blue coral
C.Heliopora	r. Sea pen
D. Chiropsalmus	s. Stinging coral

a) 
$$A = s$$
,  $B = q$ ,  $C = r$ ,  $D = p$ 

b) 
$$A = q$$
,  $B = r$ ,  $C = s$ ,  $D = p$ 

c) 
$$A = s$$
,  $B = r$ ,  $C = q$ ,  $D = p$ 

d) 
$$A = r$$
,  $B = q$ ,  $C = s$ ,  $D = p$ 

29. Which of the following possesses a hard exoskeleton formed by calcium carbonate?

- a) Aurelia
- b) Physalia
- c) Corallium
- d) Halistemma

30. Assertion (A): Metagenesis is exhibited by hydra and Aurelia

Reason (R): Metagenesis in Hydra and Aurelia is like that of alternation of generation in plants

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements

31.	In the ommatidium	n of cockroach t	the primary	pigmented (	cells are formed by
	a. semper cells b.re	etinular cells	c,rhabdom	eres d.ler	nticular cells.
32.	Solenocytes are ass	sociated with:			
	a) Nutrition	b) excretion	c) re	espiration	d) reproduction
33.	Parasitic animals l	nave well-develo	ped:		
	a) Respiratory syste	m b) dige	estive system	c) reprod	luctive system
	d) excretory system				
34.	What is common a	mongst tapewo	rm, liver flu	ke and plan	arian?
	a) They are all segn	nented	b) T	hey all have	a coelom
	c) They are all foun	d in gut	d) T	hey all have	flattered body
35.	Alimentary canal i	s absent in:			
	a) Cestoda	b) Nematoda	c) G	astropoda	d) Pelecypoda
36.	Anus is absent in:				
	a) Unio & Fasciola		b) F	asciola & O	phiothrix
	c) Phetetima & Gor	gonocephalus	d) P	eriplanata &	Phetetima
37.	In the life – history	of liver fluke o	one comes ac	ross the foll	owing stages:
	1. Cercaria	2. Metacercar	ria		
	3. Miracidium	4. Radia	5.Sporocys	t	
	Which of the follow	ing is the proper	r sequence in	its life- histo	ory?
	a) 3-5-4-2-1	b) 3-5-1-2-4	c) 3	-5-4-1-2	d) 3 – 5- 4 -2-1
38.	In which of the ani				
	a) Bonellia	b) Schistosom	na c) B	oth (a) & (b)	d) none of these
39.	Eggs of cockroach	are fertilized in	<b>1:</b>		
	a) Cocoon	b) ootheca	c) Fallopiar	tube d	) genital pouch of female
40.	Embryonated egg				
	a) An egg with gast	rula	ŕ	n egg with o	
	c) An egg with blas		,	n egg with ju	
41.	_	which the deve	lopmental st	tages of Asc	aris serially pass in man
	includes				
	a) Outside → intest		_		
	b) Outside → trach	-			
	, -	_		_	$art \rightarrow trachea \rightarrow outside$
	d) Outside → stoma				
		www.sa	akshieduca	ation.com	

<b>42.</b>	Study the following with reference to body wall in cockroach.
------------	---

1. Exocuticle 2.layer of polyphenols 3.lipoprotein layer 4.wax layer.

Arrange the above layers from the innermost to the outermost layers

A.3-2-1-4.

b.1-2-3-4

c. 1-2-4-3

d.3-4-2-1

### 43. Parapodia are found in

a) Hirudinea

b) Polychaeta

c) Oligochaeta

d) Arthropoda

#### 44. Titillator in cockroach is borne by:

a) Ovipositor

b) left Phallomeres

c) ventral Phallomeres d) right phallomere

#### 45. In Pheretima, the cells that are analogous to hepatic cells of vertebrates are:

a) Amoeboid cells

b) circular cells

c) mucous cells

d) chloragogen cells

#### Mock test Question paper in Non Chordate Animal Phyla KEY

46) d	47) d	48) d	49) c	50) c	51) b	52) d	53) b	54) c	55) a
56) c	57) d	58) a	59) c	60) d	61) b	62) d	63) d	64) b	65) b
66) c	67) b	68) a	69) c	70) c	71) b	72) d	73) c	74) c	75) d
76) b	77) b	78) c	79) d	80) a	<b>81</b> ) b	82) c	83) b	84) d	85) a
86) a	87) b	88) b	89) b	90) d		•	•	•	<u> </u>

### **QUESTION BANK EXERCISE -3**

# 01. Which of the following is not a match between the protozoan and its locomotor organelles?

#### Protozoans Locomotory organs

a) Trypanosoma

Flagellum

b) Paramecium

Cilia

c) Giardia

Flagella

d) Monocystis

Pseudopodia

#### 02. Organism that does not belong to class mastigophora is

a) Trypanosoma

b) Trichomonas

c) Leishmania

d) Balantidium

## 03. Which of the following type of cell of poriferans provide food to the developing cells and Are called nurse cells?

a) Scleroblasts

b) Myocytes

c) Gland cells

d) Trophocytes

#### 04. Which of the following statement is an incorrect w.r.t sponge?

	All sponges are aquatic		b) They are primitive multicellular										
	c) Digestion is extra	acellular	d) Paragastric cavity	is present									
05.	Cliona is the borin	g sponge which can pe	enetrate the rocks and	l break them into pieces. It									
	belongs to												
	a) Calcarea	b) Hexactinellida	c) Calcispongiae	d) Demospongiae									
06.	Siliceous spicules v	which are triaxon with	six rays are present i	in									
	a) Calcarea	b) Hexactinellida	c) Demospongiae	d) Euspongia									
<b>07.</b>	Assertion (A): Par	amecium is a surface f	eeder										
	Reason (R): Nutrit	tion is holozoic in Para	mecium										
	a) If both A & R are	e true and the reason is t	he correct explanation	of the A									
	b) If both A & R are true, but the reason is not the correct explanation of the A c) If A is true statement, Reason is false												
	d) If both A and R a	are false statements	4										
08.	Assertion (A): Spo	nges reproduce asexua	ally by fragmentation	and sexually by the									
	formation												
	of gametes												
	Reason (R): In spo	nges fertilization is int	ernal and developme	ent is indirect having a									
	of gametes  Reason (R): In sponges fertilization is internal and development is indirect having a larval stage which is morphologically distinct from adult  a) If both A & R are true and the reason is the correct explanation of the A  b) If both A & R are true, but the reason is not the correct explanation of the A  c) If A is true statement, Reason is false												
	a) If both A & R are true and the reason is the correct explanation of the A												
	<ul><li>a) If both A &amp; R are true and the reason is the correct explanation of the A</li><li>b) If both A &amp; R are true, but the reason is not the correct explanation of the A</li></ul>												
	•												
	♥.												
09.		wing is commonly know	wn as brain coral?										
	a) Heliopora	b) Meandrina	c) Hippospongia	d) Fungia									
10.		, G	n the endoderm of H	ydra, but not in epidermis?									
	a) Cnidoblasts and i												
4		nd endothelio-muscular	nutritive cells										
		c) Cnidoblasts and germ cells											
	d) Interstitial cells a	•											
11.	Choose the correct												
	a) Adamisa – Blue		b) Pennatula	•									
	c) Gorgonia – Orga		d) Beroe – Venus girdle										
12.		wing is/are exclusively	marine, radially sym	metrical and diploblastic?									
	a) Pleurobranchia	b) Hydra	c) Ctenoplana	d) Both 1 & 3									
13.	Which of the follow	wing stages in the life o	ycle of Fasciola hepa	tica infects the primary and									
	secondary hosts re	spectively?											

	a) Miracidium, red	lia	b) Metacercaria, m	b) Metacercaria, miracidium							
	c) Miracidium, cer	rcaria	d) Cercaria, metace	ercaria							
14.	Among the follow	ving organisms, whic	h one possesses high ro	egeneration power?							
	a) Taenia	b) Schistosoma	c) Planaria	d) Fasciola							
<b>15.</b>	Which of the follo	owing organism is no	ot free living?								
	a) Rhabditis	b) Planaria	c) Ancylostoma	d) Pheretima							
16.	Assertion (A): In	flatworms, flame cel	ls are meant for excre	tion and osmoregulation							
	Reason (R): In flatworms, ammonia is the chief excretory waste product										
	a) If both A & R are true and the reason is the correct explanation of the A										
	b) If both A & R are true, but the reason is not the correct explanation of the A										
	c) If A is true statement, Reason is false										
	d) If both A and R	are false statements									
<b>17.</b>	Assertion (A): In	annelids, neural syst	tem consists of paired a	ganglia connected by lateral							
	nerves to a double ventral nerve cord.										
	Reason (R): Nere	is possesses lateral a	ppendages, parapodia	which help in swimming							
	a) If both A & R are true and the reason is the correct explanation of the A										
	b) If both A & R are true, but the reason is not the correct explanation of the A										
	c) If A is true state	ement, Reason is false									
`	d) If both A and R	are false statements									
18.	Assertion (A): Hi	rudinaria is blood su	cking leech								
	Reason (R): It exhibits bilateral symmetry and enterocoelom										
	a) If both A & R are true and the reason is the correct explanation of the A										
	b) If both A & R are true, but the reason is not the correct explanation of the A										
	c) If A is true state	ement, Reason is false	d) If both A and R	are false statements							
19.	Chloragogen cells	s in earthworm help	in								
4	a) Cutaneous respi	iration	b) Formation	on of blood cells							
	c) Excretion		d) Helps in	digestion like liver							
20.	Find the odd one	w.r.t ctenophore									
	a) Polyp phase is a	absent in life cycle									
	b) Biradially symmetrical without enidoblasts										
	c) Tentacles when	present contain collol	olasts								
	d) Asexual reprod	uction									
21.	Which of the follo	owing has nerve cells	but no brain?								
	a) Hydra	b) Sponge	c) Cockroach	d) Mosquito							
22.	Digestion in spon	ges is/occurs									

c) Both extra-cellular and intra-cellular  23. Open type circulation is found in  a) Earthworm and Leech b) Earthworm and Pila c) Pila and Leech d) Earthworm and Octopus  24. Which of the following is not the correct match regarding the animal and its larva? a) Pila – Veliger larva b) Neopilina – Trochophore c) Obelia – Planula d) Fasciola – Cysticercus larva  25. Tube feet/podia of the echinoderm is related to a) Locomotion b) Respiration c) Excretion d) All of these  26. Halters in mosquitoes and housefly are associated with a) Prothorax b) Mesothorax c) Metathorax d) Head  27. Starfish belongs to asteroidean class. Mark correct characters related to starfish from those given below a) Respiration by dermal branchae and tube feet b) Shows autonomy of arms c) Bipinnaria larva d) Presence of pedicellariae a) Only c b) c & d c) a, c & d d) a, b, c & d
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a) Only c b) c & d c) a, c & d d) a, b, c & d
28. The invertebrate group having enterocoel and deuterostomic condition is
a) Arthorpoda b) Echinodermata c) Mollusca d) Annelida
29. Mark the correct match
a) Cydippid – Jelly fish b) Trochophore – Acorn worm
c) Glochidium – Fresh water mussel d) Brachiolaria – Brittle star
30. The cephalothorax bears simple eyes and six pairs of appendages and antenna are absent
in the class
a) Arachnida b) Insecta c) Crustacea d) Annelida
31. Match the following
Column-1 Column-2
a) Schistosoma i) Protrusible pharynx
b) Fasciola ii) polymbryony
c) Dugesia iii) Dog tapeworm
d) Echinococous iv) Dioecious
a) a(i), b(ii), c(iii), d(iv) b) a(iv), b(ii), c(i), d(iii)
c) a(iv), b(iii), c(ii), d(i) d) a(iii), b(iv), c(i), d(ii)
32. In which class of phylum enchinodermata anus is absent, mouth and madreporite present
on oral surface?
a) Asteroidea b) Ophiuroidea c) Holothuroidea d) Crinoidea

## 33. Chemically pearls contain calcium carbonate and are secreted by mantle of Pinctada when

- a) Attacked by enemies
- b) Stimulated by some silica or other particles or parasites
- c) Starvation occurs for a long period
- d) More food is available

#### 34. Which of the following is not a characteristic feature of annelids?

- a) The body is covered by definite cuticle secreted from the ectoderm
- b) The body wall of annelids has both longitudinal and circular muscles
- c) In soft bodied earthworms, with a segmented body, there is a separate coelom in each segment. Here it acts as a hydraulic skeleton
- d) Polychaetes are monocious. Larva is typical trochophore

#### 35. Assertion (A): In sponges Archaeocytes are totipotent in nature

# Reason (R): Archaeocytes are undifferentiated cells which are able to develop into all type of cells

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements

#### 36. Which of the following has proboscis supported by a buccal diverticulum?

a) asidian b)lancelet c)acorn worm d) Salpa

#### 37. Which of the following are the common characters of all arthropods?

- a) Head, thorax and abdomen
- b) Chitinous, exoskeleton and jointed appendages
- c) Malpighian tubules and jointed appendages
- d) Tracheal system and green glands

#### 38. Torsion is a characteristic of

- a) Gastropods only
- b) Cephalopods only
- c) Gastropods and cephalopods
- d) All molluses

#### 39. Find out the incorrect statement w.r.t. Arthropods

- a) Adult culex and Anopheles can be distinguished with the help of sitting posture
- b) Halteres are second pair of reduced wings of housefly and mosquito which help in balancing
- c) Spider spins the web by means of a secretion of abdominal glands
- d) Blood helps in transportation of O<sub>2</sub> and CO<sub>2</sub> within the body in insects

#### 40. Which of the following is a common characteristic of earthworm, prawn and cockroach?

a) Cutaneous respiration

b) Metameric segmentation

c) Chitinous exoskeleton

d) Open circulatory system

41.	<ul><li>a) Organ-sys</li><li>c) Triploblas</li></ul>	stem lev stic	rel of body organization	<ul><li>b) Bilateral symm</li><li>d) Metameric seg</li></ul>	mentation							
42.	Neural syste cord. The ne a) Double, v	erve co	rd is/are	red ganglia connect b) Double, dorsal	ed by lateral nerves to nerves and hollow							
43.	c) Single, ve Which one i	ntral an	d hollow	d) Single, ventral and solid								
	a) Nereis	-	Chloragogen cells	b) Earthworm -	Citellum							
	c) Leech	-	Botryoidal tissue	d) Nereis -	Trochophore larva							
44.	In Mollusca	the spa	ace between the hump	and the mantle is	called							
	a) Pleral cav	ity cont	aining lungs	b) Pericard	dial cavity containing heart							
	c) Haemocoe	el conta	ining blood	d) Mantle	cavity containing gills							
<b>45.</b>	Assertion (A	1): Ner	eis shows indirect dev	elopment								
	Reason (R):	Life cy	vele includes trochoph	nore larva								
46. S	a) If both A & R are true and the reason is the correct explanation of the A											
	b) If both A & R are true, but the reason is not the correct explanation of the A											
	c) If A is true statement, Reason is false											
	d) If both A	and R a	re false statements									
46.	Which of th	e follov	ving insect is not bene	eficial to man?								
	a) Locusta		b) Apis	c) Bombyx	d) Laccifer							
<b>47.</b>	Some chara	cters w	ith reference to arthr	opods are given bel	low, mark wrong one							
	a) Circulator	y systei	m is of open type	•								
	b) Mostly die	oecious										
	c) Mostly oviparous with external fertilization											
	d) Developm	nent ma	y be direct or indirect									
48.	Which of th	e follov	ving match is incorre	et?								
	a) Peripatus	– Neph	ridia	b) Limulus – Book gills								
	c) Scorpion -	– Book	lungs	d) Crab – Malpigl	d) Crab – Malpighian tubules							
49.	Which of th	e follov	ving match is incorre	ct w.r.t animal and	their larval form?							
	a) Silk worm	n – Cate	pillar	b) Beetle – Grub	b) Beetle – Grub							
	c) Housefly	– Magg	ot	d) Anopheles – M	lysis							
50.	Mark the od	dd one										
	a) Bombyx		b) Musca	c) Teredo	d) Periplaneta							
51.	Which of th	e follov	ving organism is vivip	parous?								
	a) Cockroacl	h	b) Scorpion	c) Prawn	d) Leptocorisa							
52.	Select the in	correct	t statement regarding	arthropods								
	a) In land art	thropod	s, fertilization is intern	al								
	b) In all arth	ropods	the body is divided into	head, thorax and al	odomen							

	c) The heart is dors	al and the circulatory sys	stem is open								
	d) These are triplob	lastic and schizocoelom	ate organisms								
53.	In which of the fol	lowing polyp stage is al	bsent in their life cyc	cle. They are radially							
	symmetrical devoi	d of cnidoblasts but co	ntain colloblasts, and	d exhibit bioluminescence							
	a) Aurelia and Vell	ala	b) Physalia and Hor	niphora							
	c) Meandrina and M	Madrepora (	d) Ctenoplana and C	Cestrum							
<b>54.</b>	Metagenesis is usu	ally distinct in the follo	owing cnidarian anir	nals, except							
	a) Obelia	b) Hydra	c) Physalia	d) Aurelia							
55.	Which of the follow	wing cells are not prese	ent in the gastrodern	nal layer of Hydra?							
	a) Nerve cell	b) Interstitial cell	c) Gland cell	d) Cnidoblast cell							
<b>56.</b>	'Lasso' present in	the nematoblasts of Hy	dra is meant for								
	a) Ejection of the th	read tube	b) Uncoiling of thre	ad tube							
	c) Preventing detac	hment of nematocyst fro	m nematoblast								
	d) Opening of oper	culum	4								
<b>57.</b>	A unicellular gree	n alga Zoochlorellae m	akes symbiotic assoc	ciation with Chlorohydra							
	viridissima. This a	lga is present									
	a) In the gastrovasc	ular cavity									
	b) With mesenteries separating the gastrovascular cavity										
	c) In interstitial spa	ce									
	d) in gastrodermal of	cells									
<b>58.</b>	Which of the follow	wing ctenophore is com	nmonly known as the	e Venus girdle?							
	a) Homiphora	b) Pleurobrachia	c) Ctenoplana	d) Cestum							
<b>59.</b>	Type of symmetry	present in the larval fo	orms of echinoderms	s is							
	a) Radial	b) Biradial	c) Bilateral	d) Asymmetrical							
60.	Which of the follo	wing are pincer like str	ructures and keep th	e body surface clear of							
	debris and minute	organisms?									
	a) Papulare	b) Dermal branchiae	c) Pedicellariae	d) Madreporite							
61.	Aristotle's lantern	is a masticatory appar	atus and is present i	in							
	a) Crinoidea	b) Echinus	c) Ophiothrix	d) Antedon							
<b>62.</b>	Which of the follo	wing are members of th	ne same class?								
	a) Asterias, Clypeas	ster, Pentaceros	b) Echinus, Ophiura	, Echinarachinus							
	c) Asterias, Pentace	eros, Astropecten	d) Holothuria, Ante	don, Cucumaria							
<b>63.</b>	Which of the follo	wing animals have gills	for respiration, pro	boscis gland for excretion							
	and external fertil	ization?									
	a) Echinus	b) Cucumaria	c) Balanoglossus	d) Pentaceros							
<b>64.</b>	Molluscs typically	employ a feeding organ	n called radula whic	h is armed with rows of							
	chitinous teeth but	t radula is absent in wh	ich of the following	mollusc?							

	a) Pila	b) Unio	c) Doris	d) Limax							
<b>65.</b>	Which of the	following phylum is seco	nd largest?								
	a) Arthropoda	b) Mollusca	c) Annelida	d) Echinodermata							
66.	Which of the	following statement is/ar	e correct w.r.t molli	ascs?							
	a) Body is gen	erally covered with calcar	eous shell								
	b) Body is gen	b) Body is generally unsegmented with distinct head, muscular foot and visceral hump									
	c) Molluscs ge	nerally have rasping organ	n for feeding called ra	adula							
	d) All of these										
<b>67.</b>	Which of the	following is not a charac	teristic of phylum A	nnelida?							
	1) Metamerica	ndition									
	3) Only longitudes	udinal muscles for locomo	otion 4) Double ventra	al nerve cord							
	a) 1 only	b) 3 only	c) 2 & 3 only	d) 3 & 4 only							
<b>68.</b>	Which of the	following cannot be cons	idered as advancem	ent of annelids over							
	nematodes?		<b>.</b>								
	a) Metameric s	segmentation b)	Longitudinal and circ	cular muscles for locomotion							
	ŕ	,	Closed circulatory sy								
69.	Which of the following nematode is monogenetic and is found in small intestine?										
	a) Ascaris lum	bricoides	b) Ancylostoma	duodenate							
	c) Enterobius		d) Both 1 & 2								
70.	Animals havin	ng soft, unsegmented boo	ly with a distinct he	ad, muscular foot and visceral							
	hump belong	- '									
	a) Annelida	b) Arthropoda	c) Mollusca	d) Echinodermata							
71.	Which of the	following animals is not	dioecious?								
	a) Ascaris	b) Wuchereria	c) Nereis	d) Earthworm							
72.		: Pearls are made up of o									
	Reason (R): They are secreted by shell										
	a) If both A & R are true and the reason is the correct explanation of the A										
		R are true, but the reason									
		statement, Reason is false	•	R are false statements							
<b>73.</b>				contains anticoagulant, hirudin							
		Iirudin prevents clotting	_								
		R are true and the reason	•								
		R are true, but the reason	is not the correct exp	planation of the A							
		statement, Reason is false									
		d R are false statements									
74.	Assertion (A):	: Gastropods body is asym	nmetrical due to torsion	on							

Reason (R): In gastropods body is asymmetrical but during development the body twists by	y
360 <sup>0</sup> so that the body becomes asymmetrical	

- a) If both A & R are true and the reason is the correct explanation of the A
- b) If both A & R are true, but the reason is not the correct explanation of the A
- c) If A is true statement, Reason is false
- d) If both A and R are false statements

# 75. Which of the following acts as a distinguishing character between Periplanata and Blatta?

- a) Anal style b) Anal cerci
- c) Reduced wings in **Blatta** while developed in **Periplanata** d) reverse of above
- 76. If corpora allata are removed from 1<sup>st</sup> instar of a nymph, then:
  - a) Duration of stadia increases
  - b) It will remain nymph forever
  - c) It will become adult immediately
  - d) It will enter into secondary stage of juvenile
- 77. Study the following
  - A. spider 1.uric acid
  - B. prawn 2. NH<sub>3</sub>
  - C. Earth worm 3.guanine.
  - D.silver fish 4.urea.

Choose the correct set of matching

	A B C	D		A	В	C	D
a)	3 4 1	2	b)	4	3	2	1
c)	2 1 3	4	d)	3	2	4	1

- 78. Cellulase is secreted by the microbes living in
  - a. crop b. Gizzard c. mesenteron d. proctodaeum.
- 79. The number of alary muscles and the number of chamber present in the heart of cockroach are respectively:
- a. 12& 13 b.12pairs &13 c.10& 12 d.12& 13 pairs.
- 80. The muscles that help in the breathing movements in cockroach are
  - a. adductor and alary muscles
    b. dorsoventral &longitudinal muscles
  - c. tergosternal & alary muscles d. longitudinal& abductor muscles.

## UNIT-III:: INVERTEBRATE PHYLA Question Bank key

															4000000	55L #55E5E5			
81)	d	82)	d	83)	d	84)	c	85)	d	86)	b	87)	b	88)	b	89)	b	90)	b
91)	b	92)	d	93)	b	94)	c	95)	c	96)	b	97)	b	98)	c	99)	c	100)	d
101)	a	102)	b	103)	c	104)	d	105)	d	106)	c	107)	d	108)	b	109)	c	110)	a
111)	b	112)	b	113)	b	114)	d	115)	a	116)	c	117)	ь	118)	a	119)	d	120)	b
121)	d	122)	a	123)	a	124)	d	125)	a	126)	a	127)	c	128)	d	129)	d	130)	c
131)	b	132)	b	133)	d	134)	b	135)	d	136)	c	137)	d	138)	d	139)	c	140)	c
141)	b	142)	c	143)	c	144)	b	145)	b	146)	d	147)	b	148)	c	149)	d	150)	c
151)	d	152)	c	153)	a	154)	c	155)	c	156)	b	157)	d	158)	d	159)	b	160)	b