SHRI R.L.T. SCIENCE COLLEGE, AKOLA Department Of Zoology

BSc I/Sem I (CBCS Pattern)

QUESTION BANK

MULTIPLE CHOICE QUESTION

UNIT I

Phylum Protozoa

1)	Which clkass does the malarial parasi	te belong to ?	
	a) Dinophyceae	b) Sarcodina	
	c) Ciliat	a) Sporozoa	
2)	Protozoa are classified on the bais of		
	a) Lacomotory organs	b) Shape	
	c) Numbr of nuclei	d) Size	
3)	A protozoan is defined as		
	a) Motile prokaryotic unicellular prati	ist	
	b) Motile eujkaryotic unicellular proti	st	
	c) Motile eukaryatic unicellular photo	synthetic protist	
	d)Motile eukaryotic multicellular prot	e <mark>st/</mark>	
4)	Protozoa are generally not		
	a) Multicellular	b) Microscipic	
	c) Lacking cell walls	d) Eukaryatic	
5)	Number of motility structures o flagellated cells is		
	a) grater than ciliated cells	b) Lesser than ciliated cells	
	c) equal to ciliated cells	d) None of these	
6)	The thropozoite of plasmodium lives in		
	a) Erythrocytes of man	b) Liver cells	
	c) Stomach of mosquito	d) Blood plasma	
7)	The infective stage of Entamoeba hist	olytica is	
	a) Soirizoite	b) Minuta form	
	c) Mature cyst	d) Trophic form	
8)	Sporogony of malaria parasite occurs	in	
	a) Liver of man	b) RBC of man	
	c) Stomach wall of mosquito	d) Salivary gland of mosquito	
9)	The shgivering, a characteristic sympt	com of malaria, occurs when	

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10)	 a) Sporozoites enters the blood b) Metacrypotozoites are liberated from RBC c) Merozoites are liberated from RBC d) Schizonts are formed in the RBC Unicellular eukaryotes are grouped in 	with toxin
	a) Monerac) Archaea	b) Protista d) Fungi
	<u>UNI</u>	<u>T II</u>
	Phylum .	<u>Porifera</u>
1)	Members of phylum porifera are	
	a) Mostly freshywater animals but few	are marine entities
	b) Mostly marine animals but few ar	
2)	c) Exclusively fresh water animals These are multicellular grade entity	a) Exclusive marine animals
	a) Bertebrates	b) Sponges
	c) Prokaryotes	d) Coplenterates
3)	Animal of phylum Porifera are charact	erised by
	a) Diploblastic organisation	b) Canal system
	c) Coelom	d) Coelenteron
4)	Digestion in sponges	
	a) Intracellular	b) Intercellular
	c) Both a and b	d) Extracellular
5)	The only fresh water sponges is	
	a) Scypha	b) Euspongia
	c) Spongilla	d) Oscarella
	<u>Phylum co</u>	<u>elenterate</u>
6)	The class of coelenterate in which the animal is	medusa and polyp both are found in one
	a) Anthozoa	b) Hydrozoa
	c) Scyphozoa	d) None of the above
7)	This is a characteristic feature of coele	nterata
	a) Polyp	b) Gastrovascular cavity
	c) All are marina	d) Presence of tentacles around mouth
8)	Which of the following is incorrect sta	tement
	a) Polyp produce medusae	b) Medusae produce polyp sexually

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0)	c) Polyp produce medusa sexually	
9)	Physalia is a coelenterate which is also	known as
	a) Sea penb	b) Sea fan
	c) Portuguese man of was	d) Sea anemone
10)	Nematocysts are the organs of	
	a) Sensation	b) Reproduction
	c) Defence and offence	d) Respiration
	UNIT	<u>r III</u>
	Phylum Plat	<u>ehelminthes</u>
1)	Fasciola hepatica is	
	a) Hermaphrodite, self fertilize	b) Hermaphrodite, cross fertilize
	c) Unisexual	d) Both (a) and (b)
2)	Which of the following animals does n	ot have a body composed of many segments
	All and the second	
	a) Gross hopper	b) Flatworm
	c) Earthwarm	d) Lobster
3)	Which one of the example of platehely	minth
	a) Tryponosoma	b) Fasicola
	c) Wuchereria	d) Plasmodium
4)	Anus is absent in	
	a) Fasicola	b) Periplaneta
	c) Pheretima	d) Unio
5)	In helminthes, flame cells are compone	ent of their
	a) Reproductive system	b) Excretory system
	c) Nervous system	d) Respiratory system
6)	In the life cycle of Liver Fluke the shee	ep get infection when they
	ingest	
	a) Encysted cereniae	b) Miracodia
	c) Sporocysts	d) Rediae
7)	Which of the following swim by cilliar	y action
	a) Adult Fasciola	b) Miracidum redia/Cercaria of Fasicola
	c) Miracidium larvba of Fasciola	d) Unio
8)	Solenocytes and Nephridia are respecti	vely found in
	a) Platyhelminthes and Annelids	b) Annelids and Nematodia
	c) Cnidaria and Mollusca	d) Mollusca and Protozoa

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9)	Platyhelminthes represents an example	es of	
	a) Cellular grade organisationc) Organ-system grade organisation		
10)	Pseudocoelom is not found in		
	a) Ascaris	b) Ancylostoma	
	c) Fasciola	d) None of these	
11)	The correct sequence of various larvae	e in liver fluke is	
	a) Miracidium, Sporocyst, Cercaria, re	edia, metacercaria	
	b) Miracidium, Sporocyst, redia, C		
	c) Sporocyst, redia, miracidium, Cerc		
	d) Cercaria, Sporocyst, redia, Miracid		
12)	In Cercaria stage of Fasciola hepatica	leads to	
	a) Sporocyst	b) Redia	
	c) Miracidium	d) Metacercaria	
13)	Facicola caused the disease called		
	a) Amoeniosis	b) Fascioliasis	
	c) Dairrohea	d) Typhoid	
14)	Which drugs used for treatment of Fasciolias is		
	a) Hexachloroethane	b) Filicin	
	c) Pqarcetomol	d) Both A and B	
	<u>Phylum</u>	<u>Aschelminthes</u>	
1)	Ascaris have definite reddish tint caused by the presence of		
	a) Plasma	b) Hamoglobin	
	c) RBC	d) Blood	
2)	Caestodes are distinguished between t	wo tapeworms	
	a) Cestodes	b) Nematodes	
	c) Fasciol	d) None	
3)	Cysticerus is the larva of		
	a) Liver Fluke	b) Tapeworm	
	c) Ascaris	d) Mollusca	
4)	Tapeworms obtain their food from		
	a) Mouth	b) Suckers	
5)	c) Outer surface The body cavity of acceric is pseudoor	d) All the above	
5)	The body cavity of ascaris is pseudoco		
	a) It contains large cells termed psued	ocaelocytes	

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	b) It is bound extremely by mus	scle layer and internally by intestines
6)	c) It has very little parenchyma Ascaris lumbricoides lives intesti	· •
7)	a) Sheep and goatc) Homo SapinesThe life cycle of Ascaris lumbrica	b) Monkey d) Pi8g oids an intermediate host which is
8)	a) Cattlec) ManThe life span of Ascaris is	b) Snail d) None of above
9)	a) More than 30 daysc) 6 monthsThe infected stage of Ascaris is _	b) 1 – 2 years d) 8 – 10 months
10)	a) Eggc) Second JuvenileThe exterior of Ascaris is covered	b) Fourth Juvenile d) Adult worm itself by
11)	a) Pelliclec) ScleritesThe disease caused by hook worm	b) Epidermis d) Cuticle n is called
12)	a) Ascariasisc) AncylostomiasisElephantiasis caused by	b) Elephantiasis d) Enterobiasis
	a) Wuchereria bancroftic) Enterobius vermicelli's	b) Ascaris lumbricoidesd) Fasciola hepatica
,	Ascaris normally inhabits the lum a) Stomach c) Appendix Require tie On of Association	b) Small intestine d) Large intestine
	Respiratio9n of Ascaris isa) Cutaneousc) AnaerobicThe mode of nutrition is Ascaris in	b) Aerobic d) Both b and c
,	a) Holozoicc) Saprozoic	b) Holophytic d) Sppophytic
		<u>Unit IV</u>
1)	Annlids show advancement over	um-Annelida the nematode in having
-/	a) Metameric segmentation	b) True coelom d) All of above

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2)	Anticogulant secroted by leech is		
3)	a) Heparinc) FasciolLeech belongs to the class	,	Hirudinea None
4)	a) Oligochaetac) PolychetaThe Excretopy units of Annelids are	d)	Hirudinea Chaetopoda
5)	 a) Uriniferous tubules c) Nephiridiasurface The 1st body segment of earthworm is 	d)	Flame cells Nephrostomes
6)	a) Peristomec) ProstostomiumThe mode of feeding in Leech is	d)	Peristomium Protosteome
7)	a) Herbivorousc) OmnivorousIn earthworm fertilization occurs in	ĺ	Carnivorous Sanguiniyous
8)	a) Oviduct c) Coon Nereis is commonly called		Water Bothecd
9)	a) Earthwormc) RingwormHemoglopbin is dissolved in plasma in	d)	Clamworm Roundworm
	a) Earthworm c) Tapeworm		Ascaris Insects
10)	Male genital aperture of earthworms is a) 13	b)	14
11)	c) 19 Annelids are a) Radially symmetrical		18 Externally segmented
12)	c) Triploblastic A definite number of body segment is	d)	Pseudocoelomate
13)	a) Leechc) TapewormClosed blood vascular system, liver ce parapodia are the characteristics of	d)	Earthworm Slug the blood and chitinous setae or
14)	a) Arthropodac) AnnelidaThe typhbsole in earthworm is related	d)	Nematoda intestine None of those

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	a) Excretion	b) Absorption
	c) Respiration	d) Reproduction
15)	In which of the following class of anne	elid one pair ovbaries and several pair testes
	are found	
	a) Archiannelida	b) Hiradinea
	c) Oligochaeta	d) Polychaeta
16)	The coelom appeared first in course of	evolution in
	a) Echinodermata	b) Annelida
	c) Chordata	d) Aschelmintha
17)	Suctorial mouth occurs in	
	a) Butterfly	b) Leech
	c) Taenia	d) Cockroach
	<u>Phylum- A</u>	<mark>rthrop</mark> oda
1)	Spiracles found in cockroach	na .
	a) 2 pairs in thorax, 10 pairs in abdome	en en
	b) 2 pairs in thorax, 6 pairs in abdomer	
	c) 2 pairs in thorax, 8 pairs in abdon	
	d) 2 pairs in thorax, 4 pairs in abdomer	
2)	Cephalothorax is found in the	
	a) Arthropoda	b) Annelida
	c) Nematoda	d) Protozoa
3)	The process of conversion of small coo	ckroach to adult cockroach called as
	A Control	
	a) Moulting	b) Metamorphosis
	c) Ecdysis	d) Transformato
4)	Cockroach belongs to class	
	a) Hexapoda	b) Apoda
	c) Myriapoda	d) Cephalopoda
5)	The arthropods do not possess	u) cepharopoda
,	a) True coelom	b) Exoskeleton
	c) Haemocod	d) Malphigian body
6)	In cockroach, the excretory organ are _	•
3)		
	a) Malphigian tubules	b) Nephridia
7)	c) Malphigian corpuscles To which order the Pariplanete america	d) Solenocytes
7)	To which order the Periplaneta america	ana belongs
	a) Diptera	b) Orthoptera
	c) Hemiptera	d) None of above

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8)	The Arthropoda cockroach belongs to	class	
9)	a) Calcereac) InsectaThe cockroaches are mostly active e at	b) Demospongiae d) Hexactinellid night, also called as	
10)	a) Nocturnalc) HerbivorousIn which of following parts cockroach	b) Carnivorous d) None of these body is divided	
11)	a) Head b) Thorax c) Ab Head of the cockroach is pear shaped a	, and the second	
12)	a) 3 b) 4 The contains three segments	c) 5 d) 6 s of prothorax mesothorax and meta-th	ıorax
13)	a) Abdomen b) Thorax c) The Cockroaches are classified in class	Antenna d) Head s Insecta because	
14)	a) It doesn't consist of wingsc) Wings are absent in cockroachesd) One-two pairs of wings attached toThe olfactory receptors are present in or	thorax	
15)	a) Sense of tastec) Touch and feelThe abdomen of both male and female	b) Sense of smell d) Sense of hearing cockroach consists of	
16)	a) 2 b) 7 In both male and female, a pair of joint seg, known as	c) 9 d) 10 ted filamentous structure is present in	10 th
17)	a) Anal cercii b) Anal styles c) In the cockroach, thoracic segment beau		
	a) Antenna b) Walking leg	c) Anal cerci d) Anal styles	
	Uni	t V	
	Phylum I	<u>Mollusca</u>	
1)	Which of the following body parts cont	ains all the internal organs in mollusc	?
2)	a) Foot b) Head Molusca is a larges	c) Visceral mass d) Mantle t Phylum of the animal kingdom.	
3)	a) Firstc) ThirdHow many pairs of kidneys are presen	b) Second d) Fourth t in animals of mollusc ?	
	a) One	b) Two	

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4)	c) Three The study of mollusc is called	d) Both a and b
	a) Mycologyc) Phycology	b) Malocologyd) Parasitology
5)	Soft bodies animals are called as	,
	a) Annelid	b) Mollusca
	c) Coelenterated	d) None of these
6)	The body type of echinoderm organ	ism is
	a) Bilaterally symmetrical	b) Is not symmentrical
7)	c) Body is radially symmetrical The ampullae open into a	
7)		
	a) O - shaped	b) d - shaped
8)	c) P - shaped Starfishes have	d) S – shaped arms
0)		
9)	a) 5 b) 4 Pila belongs to Phylum	c) 6 d) 2
7)		h) Mallagae
	a) Cnidariac) Nematoda	b) Molluscad) Echinodermata
10)	The colour of the aboral surface is _	d) Lemmodermata
ĺ	a) Yellow	b) Green
	c) Red	d) Light orange and Purple colour
	<u>Phylum</u>	<mark>e Echino</mark> dermata
1)	The Balanoglossus animal length of	va <mark>ries from</mark>
	a) 0.1 meter	b) 1 Meter
	c) 2 to 2.5 meter	d) None of these
2)	The Balanoglossus body is	
	a) Symmetrical	b) Asymmetrical
	c) Laterally	d) Bilaterally symmetrical
3)	Which following animal belongs to	phylum Hemichordata
	a) Ant	b) Octopus
45	c) Nereis	d) Balanoglossus
4)	Body is bilaterally symmetrical and	_
	a) Hemichordata	b) Annelida
5)	c) Mollusca Balanoglossus belongs to the Class	d) Coelenterate
٦)		
	a) Hexapoda	b) Enteropneusta

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6)	c) Apoda The body shape of	d) Cephalopoda
7)	a) Cylindrical and softc) TriangularBalanoglossus are exclusively	b) Sphericald) Leaf likeanimals
8)	a) Freshwaterc) MarineIn the reproduction of Balanoglos	b) Terrestriald) All of thesesus, fertilization occurs externally and
	development includes	Larva
9)	a) Torneriac) Genital wingBalanoglossus contain	b) Collaretted) Gill Porestype of Circulatory system
	a) Closed	b) Water canal
	c) Open	d) Water vascular
10)	Respiration in hemichordates occu	The state of the s
	a) Lungsc) Gills	b) Skin d) Nostrils
	c) Gins	d) Nosuiis
		HE BLANKS Ielminthes
1.	of the body is	differentiated into the socalled head.
2.	In Platyhelminthes respiratory ar	nd circulatory systems are
3.	has dorsoventrally	flattened, leaf shaped, elongated and oval body.
4.	Anus is wanting because	is incomplete.
5.	The capillaries are continued into	o the intracellular cavity of
6.	The consists included.	of testes, vas deferentia, seminal vesicle etc
7.	It opens externally by a acetabulum.	lying ventrally in front of the
8.	All the branches as ovary open is	nto a short and narrow tube called
9.	The completed eggs divided into	a small propagatory cell and larger
10.	The fertilized egg divided into a	small propagatory cell and larger
11.		eval and elongated, free swimming stage/

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12.	A forms 5 to 8 rediae.
13.	The cercaria swim about in water fordays.
14.	In aschelminths usually present and cilli absent.
15.	In aschelminths reproduction does not occur.
16.	is elongated, cylindrical and tapering at both ends.
17.	The female ascaris is than male ascaris.
18.	There the of ascaris is a triradiate aperture.
19.	are olfactory chemoreceptors.
20.	There is a short post anal tail which is in the female, but in the male
21.	The ha muscular walls having radial muscles fibres which dilate the lumen.
22.	The intestine has no layer.
23.	The intestine is followed by the hindgut or which is also flattened dorsoventrally.
24.	The rectum also has large rectal glands.
25.	Male possesses pre and post anal papillae which are absent in
26.	Testis of is a long, thread like coiled tube.
27.	The Ejaculatory duct bears a number of whose secretion helps in copulation.
28.	The two spicules pouches unite and join the
29.	The rachis is enriched round by group of developing
30.	The vagina opens by a transverse or which lies midventrally.
31.	Life span of ascaris is months.
32.	In Body is triploblastic, bilaterally symmetrical, elongated and vermiform.
33.	Hirundinaria is a common Indian found in freshwater tanks, ponds, lakes.
34.	Cattle leech full grown specimen may attain the length of cm.
35.	On the is a median longitudinal black stripe.
36.	In leech the external segmentation correspond with the internal segmentation.
37.	Each end of the body of leech bears a hollow muscular organ, the

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38.	It is oval in outline and is placed on the ventral surface of
39.	It is formed by the of last seven somites.
40.	The are primarily menat for adhesion and locomotion.
41.	The of leech is a straight tube extending throughout the length of the body.
42.	The alimentary canal consists of the stomodaeum, the mesenteron and the
43.	it constist of pre-oral, chamber, buccal cavity and pharynre.
44.	The buccal cavity leads into mucular pharynx.
45.	consists of esophagus, crip, stomach and intestine.
46.	The is the largest region of the alimentary canal.
47.	is a small heart structure lying in the nineteenth segment.
48.	consists of rectum only.
49.	The rectum opens by a dorsal in the twenty-sixth segment.
50.	The secretion of these glands contains an anticoagulant substances called
51.	secreats mucus in the crop.
52.	of digested food takes place in intestine and stomach.
53.	Leeches are
54.	The organs consists of testis sacs, vasaefferentia, epididymis, atrium etc.
55.	The spermatogonia float in the coelomic fluid within each testis-sac and develop into
56.	All the vas efferentia of one side opens into the common of that side.
57.	Atrium is a pyriform sac situated in the and segments.
58.	The prostate chamber posseses thick muscular walls covered over with several layers of
59.	The spermatozoa produced in the testis-sac are stored in the
60.	The organs constists of a pair of ovisac, a pair of oviducts, vagina etc.
61.	The coiled ovaries remain floating in the enclosed within the ovisac.
62.	The opens into a pear-shaped muscular vagina.
63.	The vagina is a large pear-shaped muscular bag lying in the postierior part of the segment.

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64.	Fertilization occurs in vagina i.e. it is
65.	are tripolblastic, bilaterally symmetrical and metameracally segmented animals.
66.	In arthropodas cilia are entirely from all parts of body.
67.	The adult cockroach measures from cm in length and about 1 cm in width.
68.	The entire body of cockroach is covered by a hard brown coloured
69.	The head is said to be formed by the fusion of segments.
70.	In orthropods abdomen consists of segments.
71.	The hindgut is relatively broader than the
72.	of cockroach included in salivary glands, the glandular cell of the midgut and hepatic caeca.
73.	The presence of food is detected by the sensory receptors present on the and maxillary palps.
74.	The environmental air enters into and escapes from the tracheae through the or
75.	The are opened and closed by valves regulated by sphincter muscles.
76.	The network of elastic closed, branching and silvery white tubes called
77.	Inspiration and expiration take places through the
78.	The co-ordinating centres in thoracic ganglia are stimulated and respond lack of and also to an excess of CO ₂ .
79.	are ectodermal in origin like the nephridia of Annelida.
80.	The cockroaches are that is sexes are separate.
Answei	rs
6) Mal	erior end, 2) absent 3) Fasciola hepatica, 4) Alimentary canal, 5)_Flkame cell, the reproductive system, 7) gonopore, 8) Oviduct\ 9) capsule, 10) Somatic cells, tracidium larva, 12) Sporocyst, 13) 2 to 3, 14) cuticle, 15) Asexual, 16) Illumbricoides, 17) longer, 18) mouth, 19) amphids, 20) Straight or sharply

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1) Anterior end, 2) absent 3) Fasciola hepatica, 4) Alimentary canal, 5)_Flkame cell, 6) Male reproductive system, 7) gonopore, 8) Oviduct\ 9) capsule, 10) Somatic cells, 11) Miracidium larva, 12) Sporocyst, 13) 2 to 3, 14) cuticle, 15) Asexual, 16) ascharis lumbricoides, 17) longer, 18) mouth, 19) amphids, 20) Straight or sharply curved, 21) pharynx, 22) muscle, 23) rectum, 24) unicellular, 25) female, 26) Ascaries, 27) prostatic gland, 28) cloaca, 29) ova, 30) gonopore or valve, 31) 9 to 12, 32) Annelida, 33) cattle leech, 34) 30 to 35 cm, 35) dorsal side, 36) Doest not, 37) suckers, 38) anterior end, 39) fusion, 40) two suckers, 41) Alimentary canal, 42) porictodaetsum, 43) stomoduem, 44) Thick-walled, 45) Mesenteron, 46) crop, 47) stomach, 48) proctodaeum, 49) anus, 50) Hirudin, 51) gland cells, 52) absorption, 53) Hermaphrodite, 54) Male Reproductive system, 55) Spoermatozoa, 56) Bas

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deferens, 57) 9th and 10th, 58) unicellular prostate gland, 59) epididymis, 60) Female Reporductive system, 61) hgaemoeoelomic, 62) common oviduct, 63) 11th, 64) Internal, 65) Arthropods, 66) Absent, 67) 2 ro 4, 68) exoskeleton, 69) siz embryonic, 70) 10, 71) midgut, 72) Digestive gland, 73) antennae, 74) Spiracles / Stigmata, 75) Spiracles, 76) Tracheae, 77) Spiracles, 78) oxygen, 79) Malpighion tubules, 80) dioecious,

ANSWER IN ONE SENTENCES

Phylum Platyhelminthes / Aschelmenthes

1) Which type of body symmetry present in platyhelminthes?

Ans: Platyhelminthes possess the bilateral symmetry.

2) Sexes of platyhelminthes are united means.

Ans: Sexes of platyhelminthes are united means its hermaphrodite animal.

3) Fasciola hepatica belongs to order

Ans: It is belongs to order 'Digenia'.

4) life cycle of F.hepatica is

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Ans: Life cycle of Fasciola hepatica is digenetic (Required 2 hosts to complete it's life cycle).

5) Flame cells are also called as?

Ans: F.cells are also called as 'Protonephridia'.

6) What type of body shape of Aschelmenthes is?

Ans: It's has worm like, cylindrical & flattened body shape.

7) Ascaris lumbricoides belongs to class

Ans: It's belongs to class 'Nematoda'.

8) Ascaris have a definite raddish tint caused by presence of?

Ans: Reddish tint is because of hemoglobin.

9) The mouth of Ascaris is

Ans: Mouth is a 'triradiate aperture'.

10) In nematodes the later-ventral lip have a lateral papilla each cuticular excavation called as.

Ans: It's called as 'Amphid'.

11) Digestion process in Ascaris facilitated by the enzymes like.

Ans: It is facilitated with enzymes like proteases, amlyase, lipase

12) Digestive system of Ascaris lubricoides consist of?

Ans: It's cosist of mouth/Pharynx/Intestine/Rectum.

13) What is called monarchic?

Ans: Testis in male Ascaris is single in number called as monarchic.

14) F.hepatica commonly called as.

Ans: It's called as 'Liver fluke'.

15) How many hosts present for F.hepatica?

Ans: Required 2 hosts (Primary host sheep, secondary host gastropod mollusc).16)Give the name of disease caused by F.hepatica.

Ans: Disease:Fascioliasis.

17) Disease caused due to Ascaris.

Ans: Disease: Ascariasis.

18) Sexual dimorphism occurrs in.

Ans: It's occurs in Ascaris.

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19) What is the size of Female Ascaris?

Ans: It is about 20-41 cm long/4-6 in diameter.

20) Fasciola hepatica is found in.

Ans: It is found in the bile passage of the sheep.

21) What difference occurs in Male/female Ascaris?

Ans: Difference in there body length.

22) Osmoregulatory organ of F.hepatica is.

Ans: Osmoregulatory organ of F.hepatica is Flame cells.

Phylum Annelida/Arthropoda

1) Body segmentation is of type.

Ans: It is metamerically segmented.

2) What is the sucker?

Ans: Each end of body of leech bears a hollow muscular organ called 'sucker'.

3)Hirudinaria granulosa commonly known as.

Ans: it is commonly known as 'Cattle leech'.

4) Alimentary canal of leech consists of.

Ans: It consist of Stomodaeum, mesenteron, proctodaeum.

5) Which substance does the secretion of salivary glands contains?

Ans: It contains hirudin or acticoagulin.

6) What is the habit of leech?

Ans: It is Sangivivorous in habit.

7) Body cavity of arthropoda is.

Ans: haemocoel (The true coelom is reduced to the spaces of the genital and excretory organ).

- 8) Which type of animal cockroach is? Ans: It is nocturnal animal.
- 9) Digestive system of cockroach consists of.

Ans: It is consists of Alimentary canal, digestive glands.

(10) Give the significance of gizzard.

Ans: It contains Chitinised teeth helps in grinding of food.

11) Gizzard divided into two parts called as.

Ans: A) Anterior armarium B) Posterior Stomodaeal valve.

12) Lining of armarium has contains.

Ans: Six highly chitinised teeth.

13) The presence of food is detected by which organ in cockroach?

Ans: Detected by sensory receptors present on the antennae/ maxillary palps

14) What is peritreme?

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Ans: Spiracal is slit like aperture in an oval sclerotised area guarded by an annular sclerite called 'peritreme'.

15) What is Tracheae?

Ans: The haemocoel of terrestial insects including cockroach contains of a system of network of elastic, closed, branching, salivary white tubes called 'Tracheae'.

16) Tracheal trunks are connected by.

Ans: It is connected by transverse commissures.

- 17) Which is the main excretory organ in cockroach? Ans: Excretory organ: Malphigian tubules.
- 18) The male reproductive system consists of.

Ans: Pair of testis, Vasa deferentia, ejaculatory duct, utricular gland, phallic gland and external genitalia.

19) What is spermatophores?

Ans: The sperms produced from testes, while cockroach is still young are brought by Vasa deferentia into seminal vesicles for storage the sperm in seminal vesicles are glued together in the form of bundles called as 'Spermatophores'.

20) Function of vitellarium in ovaries.

Ans: It receives the oocytes from the zone of germarium one by one and constitutes the largest part of the ovariole.

Phylum: Hemichordata

1) Body of Hemichordates divided into.

Ans: Three distinct parts: Proboscis, collar, trunk

2) Which organ earlier was regarded as notochord?

Ans: It is buccal diverticulum.

3) Alimentary canal is.

Ans: It is completed, straight, U-shaped tubes.

4) Excretory organ present in Hemichordates?

Ans: Single glomerulus present in the Proboscis.

5) Balanoglossus belongs to which class?

Ans: It belongs to class 'Enteropneusta'.

6) Balanoglossus means.

Ans: Balano-acorn, glossa-tongue

7) Which charecters has gives name 'acorn worm' to this group?

Ans: The Proboscis sits in the collar somewhat like an acorn in its cup, this gives name 'acorn worm' to this group.

8) Function of cavities and water pores in proboscis and collar.

Ans: It's helps in burrowing habit.

9) Body wall of Balanoglossus is made up of?

Ans: Outer epidermis and inner musculature.

10) Affinities with annelida of Balanoglossus were suggested by.

Ans: It is suggested by Spengel (1893).

11) Affinities with Echinoderms of Balanoglossus were suggested by

Ans: It is suggested by Metschikoff (1865).

SHORT ANSWER QUESTIONS

(3 Mark Each)

Unit I:- Classification of non-chordata and Phylum Protozoa

- 1) Describe ultrastructure of sporozoite
- 2) Describe Endo-Erythrocytic Schizogony
- 3) Essay on ultrastructure of trapozoite
- 4) Draw well lebelled diagram of life cycle of P. vivax
- 5) Describe Sporogony
- 6) General characters of phylum protozoa
- 7) Describe types of malaria.
- 8) Brief on control of malaria.
- 9) Describe Amoebiasis.
- 10) Describe prevention and control of Amoebiasis
- 11) Life cycle of Entamoeba

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Unit 2:- Phylum ponifera and phylum coelenterata

- 1) General characters of porifera
- 2) Describe external features of scypha.
- 3) Describe types of cell found in sycon
- 4) Describe spicules of sypha.
- 5) Describe significance of canal system.
- 6) Draw diagram of canal system in sycon
- 7) General character of phylum coelenterate
- 8) Describe external features of metridium
- 9) Brief on coral reef
- 10) Fringing reef
- 11) Barrier reef
- 12) Atoll reef
- 13) Economic importance of coral reefs

Unit 3:- Phylum platyhelminthes and phylum Aschyhelminthes

1) General characters of phylum platyhelminthes

2) Describe external features of Fasciol hepatica.

- 3) Describe Flame cell
- 4) Male reproductive system of F. Hepatica
- 5) Female reproductive system of F. Hepatica
- 6) Describe Mehlis gland
- 7) General character of Aschelminthes.
- 8) Habit and habitat of Ascaris lubricoides.
- 9) External features of A. Lubricoides.
- 10) Digestive system in Ascaris.
- 11) Excretory system in Ascaris.

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- 12) Male reproductive system in Ascaris.
- 13) Female reproductive system in Ascaris.
- 14) Life cycle of Ascaris (Diagram only).

LONG ANSWER QUESTIONS

(7 Marks each)

Unit I

- 1) Explain the sexual phase in the life cycle of Plasmodium vivax
- 2) Expalin the life cycle in mosquito with diagram
- 3) Desc ribe the ultrastructure of sporozoite with diagram
- 4) Explain the disease of malaria with sign symptoms and treatment
- 5) Write prevention and control of amoebiasis.

Unit II

- 1) Describe the coral reefs and their types
- 2) Explain the canal system and its significance
- 3) Explain the economic importance of coral reef
- 4) Describe the erternal features of Metridium
- 5) Explain the coral with their types.

Unit III

- 1) Describe the excretory system of Fasciola hepatica
- 2) Explain male reproductive system of Fasciol hepatica
- 3) Describe the digestive system of Ascaris
- 4) Explain the Female reproductive system of Ascaris
- 5) Life cycle of Ascaris in details.

Unit IV

- 1) Describe the external features of Periplaneta
- 2) Explain the Respiratory system of Periplaneta
- 3) Explain the exc retory system of Periplaneta.
- 4) Explain the ditgestive system of Hirudinaria
- 5) Describe the Reproductive system of Periplaneta in details

Unit V

- 1) Describe reproductive system of Pila
- 2) Explain the Respiratory system of Pila
- 3) Explain the water vascular system in asterians
- 4) Describe the External features of Asterias

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5) Describe the mechanism of respiration of Pila with diagram,

Unit VI

- 1) Describe larval forms and their significance
- 2) Explain parasitic adaptations in helminthes?