

Assignment questions:

MULTIPLE CHOICE QUESTIONS: Helminthes and Arthropoda

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Q.1.Describe the Life cycle of *Taenia solium*.

Q2.What is the primary and secondary hosts of *Wuchereria bancrofti*? Which stage of *Wuchereria* is infective to man?

Q3.Discuss the different larval stages of Liver fluke?

Q.4.Give an account of habit, habitat and external features of Ascaris.

Q.5.Give an account of the life history of Ascaris.

1. Platyhelminths are:

- | | |
|--|--|
| A. Triploblastic | B. Triploblastic acoelomates |
| C. Triploblastic, acoelomates with unsegmented body | D. Triploblastic, acoelomates with segmented body |

2. Which of these tissues is found only in platyhelminths:

- | | |
|------------------------------|-------------------------|
| A. Interstitial cells | B. Parenchyma |
| C. Mesogloea | D. None of these |

3. Excretory system of Fasciola and tapeworm is characterized by the presence of:

- | | |
|----------------------------|-------------------------|
| A. Septal nephridia | B. Flame cells |
| C. Both (a) & (b) | D. None of these |

4. Which of these platyhelminths are not parasites:

- | | |
|-----------------------|------------------------|
| A. Liver-fluke | B. Tape-worm |
| C. Planaria | D. All of these |

5. The digestive system of flat-worm is characterized by:

- | | |
|------------------------------|---|
| A. Absence of anus | B. Presence of pharynx |
| C. Absence of pharynx | D. Presence of anus and absence of |

6. Platyhelminths have got:

- | | |
|---|--|
| A. Well developed chitinous endoskeleton | B. Well developed calcareous endoskeleton |
| C. Non endoskeleton | D. Bony endoskeleton |

7. Genus Fasciola was discovered by:

- | | |
|-------------------------|-------------------------|
| A. Jehan de Brie | B. Linnaeus |
| C. Aristotle | D. None of these |

8. Cercariae infecting sheep were 1st observed by

- | | |
|-------------------|-------------------------|
| A. Thormas | B. Jehan DE BRIE |
| C. Lararck | D. None of these |

9. Live-fluke is found in the:

- | | |
|---|--------------------------------------|
| A. Intestine of man | B. Intestine of sheep |
| C. Liver and bile ducts of sheep | D. Liver and bile duct of man |

10. Intermediate host in the life cycle of Fasciola hepatica is:

- | | |
|----------------|--------------------|
| A. Pig | B. Snail |
| C. Crab | D. Rat-flea |

11. Fasciola is:

A. Monecious

B. Dioecious

C. Unisexual

D. None of these

12. Anus is absent in:

A. Fasciola

B. Earthworm

C. Cockroach

D. House-fly

13. Alimentary canal is absent in:

A. Tape-worm

B. Liver-fluke

C. Cockroach

D. House-fly

14. Which of these systems are not found in liver-fluke and tape-worm:

A. Digestive system

B. Respiratory system

C. Circulatory system

D. Respiratory and circulatory system

15. Spaces between inner organs in liver-fluke are occupied by:

A. Parenchyma

B. Mesogloea

C. Botryoidal tissue

D. None of these

16. Testes in Fasciola are:

A. One pair and placed side by side

B. One pair and tandem

C. Two pairs and highly branched

D. Two pairs, highly branched and tandem

17. Ootype in liver-fluke is formed:

A. At the junction of oviduct and common vitelline duct

B. At the junction of vasa deferentia and seminal vesicle

- C.** At the junction of two longitudinal vitelline ducts **D.** At none of these places

18. Shell in the eggs of liver-fluke and tapeworm is secreted by:

- A.** Vitelline glands **B.** Mehli's glands
C. Both (a) & (b) **D.** None of these

19. Laurer's canal in liver-fluke is associated with:

- A.** Digestive system **B.** Respiratory system
C. Circulatory system **D.** Reproductive system

20. A Fasciola lays about which of these number of eggs in life time:

- A.** 1 lac **B.** 1 - 2 lac
C. 2 - 5 lac **D.** Over 10 lac

21. Which of these stages in life cycle of Fasciola hepatica is infective to secondary host:

- A.** Miracidium **B.** Cercaria
C. Metacercaria **D.** None of these

22. Which of these larva of liver-fluke is provided with cilia, epidermal plates, eye spots and penetration glands:

- A.** Cercaria **B.** Metacercaria
C. Miracidium **D.** Sporocyst

23. Which of these larva has rounded body, long tail, well developed alimentary canal:

- A.** Miracidium **B.** Cercaria
C. Metcercaria **D.** None of these

24. Infective stage of liver-fluke for primary host is:

- A.** Miracidium **B.** Aporocyst

C. Redia

D. Metacercaria

25. Intestinal tape-worms obtain their nutrition by:

A. Ingesting food particles through suckers

B. Scrapping food particles from into omyrdomr pg jpdy eoyj jppld

C. Prepare their own food

D. Absorbs liquid food through their environment

26. Anaerobic respiration occurs in:

A. Liver-fluke and tape-worms

B. Annelids

C. Molluscs and echinoderms

D. None of these

27. Primary host for Taenia solium is man but secondary host is:

A. Cow

B. Buffalo

C. Pig

D. Mosquito

28. Body of a tape-worm is divided into many:

A. Segments

B. Proglottids

C. Metameres

D. None of these

29. The division of body into numerous, serial small structures is called:

A. Segmentation

B. Strobilation

C. Metameres

D. None of these

30. All the proglottids in a tape-worm contain:

A. Immature reproductive organs

B. Mature reproductive organs

C. Anterior 200 with immature reproductive organs, middle 200-400 with mature reproductive organs and posterior 200 with only eggs in

D. None of these

uterus

31. Miracidium is found in the life cycle of:

- | | |
|-----------------------|-------------------------|
| A. Liver-fluke | B. Tape-worm |
| C. Earthworm | D. None of these |

32. Which of these parasites would not survive if all fresh water bodies dry up once for all:

- | | |
|---------------------|-------------------|
| A. Fasciola | B. Taenia |
| C. Entamoeba | D. Ascaris |

33. Attachment in tapeworms is affected by:

- | | |
|--------------------------|-------------------------|
| A. Hooks | B. Suckers |
| C. Both (a) & (b) | D. None of these |

34. Hexacanth embryo is found in the life cycle of:

- | | |
|-----------------------|------------------------|
| A. Liver-fluke | B. Tape-worm |
| C. Earthworm | D. All of these |

35. Excretion in flat-worms is performed by:

- | | |
|------------------------------|------------------------|
| A. Flame cells | B. Nephridia |
| C. Malpighian tubules | D. All of these |

36. Infective states of Taenia solium to man are found in:

- | | |
|---------------------------------|-------------------------|
| A. Muscles of pig | B. Soil |
| C. Fruits and vegetables | D. None of these |

37. Uterus in gravid proglottid of Taenia solium has:

- | | |
|---|----------------------------------|
| A. 8 - 12 lateral branches | B. 3 - 5 lateral branches |
| C. More than 15 lateral branches | D. None of these |

38. *Taenia* does not perform locomotion because it has:

- | | |
|--------------------------------|----------------------------------|
| A. No digestive system | B. Suckers for attachment |
| C. Hooks for attachment | D. None of these |

39. Blood-fluke is:

- | | |
|------------------------------|------------------------------|
| A. <i>Fasciola</i> | B. <i>Taenia</i> |
| C. <i>Schistosoma</i> | D. <i>Hymenolepis</i> |

40. Which of these diseases are caused by blood-flukes:

- | | |
|---------------------------|-------------------------|
| A. Schistosomiasis | B. Amoebiasis |
| C. Taeniasis | D. None of these |

1. Jointed appendages are found in:

- | | |
|----------------------|-------------------------|
| A. Annelida | B. Mollusca |
| C. Arthropods | D. None of these |

2. To which of these phyla the *Periplaneta* belongs:

- | | |
|----------------------|-------------------------|
| A. Arthropods | B. Annelida |
| C. Mollusca | D. Echinodermata |

3. Hard chitinous exoskeleton is found in the animals of the phylum:

- | | |
|--------------------|----------------------|
| A. Annelida | B. Arthropoda |
| C. Mollusca | D. Cnidaria |

4. Centipedes belong to phylum:

- | | |
|----------------------|-------------------------|
| A. Annelida | B. Mollusca |
| C. Arthropoda | D. None of these |

Arthrodial membranes are found in:

Cockroach and house-fly

Earthworm

Hydra

Sponge

6. Mouth-parts are used for feeding in:

A. Cockroach

B. House-fly

C. Both (a) & (b)

D. None of these

7. Mouth-parts for feeding are found in the members of the phylum:

A. Arthropoda

B. Annelida

C. Cnidaria

D. Mollusca

8. Open circulatory system is present in:

A. Cnidarians

B. Helminthes

C. Arthropods

D. None of these

9. Eyes in arthropods are:

A. Present

B. Present and well developed

C. Present, well developed and compound

D. None of these

10. Compound eyes are present in:

A. Arthropods

B. Annelids

C. Molluscs

D. None of these

11. Malpighian tubules in cockroach are used for:

A. Respiration

B. Excretion

C. Enzyme secretion

D. None of these

12. Malpighian tubules of insects are:

- | | | |
|-----------|----------------------|-------------------|
| A. | Excretory organs | Respiratory organ |
| C. | Endocrine structures | None of these |

13. Function of malpighian tubules in cockroach is:

- | | | | |
|-----------|--------------------------------|-----------|---|
| A. | Respiration | B. | Excretion, osmoregulation and homeostasis |
| C. | Secretion of digestive enzymes | D. | Storage of wastes |

14. Mandibles are not found in:

- | | | | |
|-----------|-----------|-----------|-----------|
| A. | Cockroach | B. | House-fly |
| C. | Spider | D. | Mosquito |

15. Chelicera are found in:

- | | | | |
|-----------|------------|-----------|---------------|
| A. | Cockroach | B. | Scorpion |
| C. | Butter-fly | D. | None of these |

16. Two pairs of antennae are found in:

- | | | | |
|-----------|-------------|-----------|-----------|
| A. | Crustaceans | B. | Insects |
| C. | Myriapods | D. | Arachnids |

17. Single pair of antennae are found in:

- | | | | |
|-----------|---------|-----------|-------------|
| A. | Insects | B. | Crustaceans |
| C. | Spider | D. | Scorpion |

18. Number of legs in insects is:

- | | | | |
|-----------|-------------|-----------|------------|
| A. | One pair | B. | Two pairs |
| C. | Three pairs | D. | Four pairs |

19. Four pairs of legs are found in:

- A.** Cockroach
- B.** House-fly
- C.** Spider
- D.** None of these

20. Complete metamorphosis occurs in:

- A.** Moths and mosquitoes
- B.** Grass-hopper
- C.** Bed-bug
- D.** Silver-fish

21. Number of wings in house-fly is:

- A.** One pairs only
- B.** Two pairs
- C.** Single
- D.** None of these

22. Halteres in house-fly are modification of:

- A.** Fore wings
- B.** Hind wings
- C.** First legs
- D.** Maxillae

23. Veins are absent in:

- A.** Cockroach
- B.** Earthworm
- C.** Snail
- D.** Hydra

24. Salivary glands are present in:

- A.** Mosquito
- B.** Earthworm
- C.** Ascaris
- D.** None of these

25. Dorsal heart is found in:

- A.** Cockroach
- B.** Earthworm
- C.** Prawn
- D.** Star-fish

26. Body cavity is haemocoel in:

- A.** Cockroach
- B.** Earthworm

C. Hydra

D. None of these

27. Excretory malpighian tubules are found in:

A. House-fly

B. Prawn

C. Hydra

D. Star-fish

28. Excretion in crustaceans occurs by:

A. Nephridia

B. Malpighian tubules

C. Coxal glands

D. Kidneys

29. Which of these animals has a ventral nerve cord:

A. Frog

B. Cockroach

C. Hydra

D. Amoeba

30. Wings in cockroach arise one pair each from:

A. Pro- and mesothorax

B. Meso- and metathorax

C. Pro- and metathorax

D. Metethorax and 1st abdominal segment