

Sohag University

Pre-pharmacy year Exam of Zoology (Part 1: Animal Taxonomy)

Faculty of science Zoology Department

Date: 23/01/2013 Total Time: 3 hrs

Answer the following questions: (45 marks)
Note: Part 1 is 3 questions in 2 pages

1-Choose the correct answer (12 markes)

- 1-Each of the following statements concerning Ascaris lumbricoides is correct except
 - A) Ascaris lumbricoides is one of the largest nematode
 - B) Ascaris lumbricoides can cause pneumonia
 - C) Both dogs and cats are intermediate host of Ascaris lumbricoides
 - D) A. lumbricoides is transmitted by ingestion of eggs
- 2-The infective stage of the Taenia saginata worms is
 - A) encysted metacercaria
 - B) cysticercus cellulosae
 - C) cysticercus bovis
 - D) trophzoite
- 3-Each of the following statements concerning hookworm infection is correct except:
 - A) hookworm infection can cause pneumonia
 - B) hookworm infection is acquired by humans when larvae penetrate the skin
 - C) hookworm infection can be diagnosed by finding the trophozoite in the stool
 - D) hookworm infection is caused by Ancylostoma duodenale
- 4-All those organism belong to trematodes except
 - A) Heterophys heterophys
 - B) Ascaris lumbricoides
 - C) Fasciola hepatica
 - D) Schistosoma mansoni
- 5-Infection of the definitive host by the intestinal fluke is by ingestion of
 - A) the snail intermediate host
 - B) the infective fish with metacercariae
 - C) the cercariae
 - D) the miracidium
- 6-Trypanosoma gambiense moved by
 - A) pseudopodia

- B) flagella
 - D) non of the above
- 7-Flame cells are characteristic excretory organelles of
 - A) trematoda

C) cilia

B) cestoda

C) nematode

D) both A&B

Page 1 of 3

7-All of the following are example of elastic cartilageEXCEPT:

c-Articular surfaces b-Ear pinna a- Epiglottis

d- Eustachian tube. e-both b&c

8-The cell which is responsible for bone resorption and remodling is:

b- osteoclast. c- chondroblast. a- osteocyte.

d- chondrocyte. e- osteoblast.

9-Major chemical constituents of bone matrix include

c-type I collagen a-calcium phosphate b-calcium carbonate

d-type III collagen e-minerals and crystals

10- Volkmann's canals

b-are at the center of the osteon a-contains no blood vessels

c-communicate with haversian canals d-are arranged parallel to the bone surface e-both b&c

11-The main character of the cardiac muscle fibers are:

a-multinucleated c-not branched b-can regenerate

e- presence of the intercalated disc d-uninucleated

12- The dark band (A band) of skeletal muscle fibers contains:

c-both a & b. a- myosin filaments. b- actin filaments.

d- neurofilaments. e- meromyocin.

13-The principal function of neutrophils:

a-phagocytosis of bacteria. b-phagocytosis of debris during the inflammation.

d- release histamine and heparin c- phagocytosis of parasites.

e-both a & b.

14-The NORMAL total leucocytic count is about:

a-10.000 WBC/1c mm of blood. c- 3.000 WBC/1c mm of blood. b- 20.000 WBC/1c mm of blood. d- 16.000 WBC/1c mm of blood.

e- 2000 WBC/ 1c mm of blood

15-Polycythemia means:

b- increase in number of R.B.Cs. a- increase in number of W.B.Cs.

c- increase in size of W.B.Cs. d-decrease in rate of formation of R.B.Cs.

e- increase in the number of platelets.



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Pre-pharmacy year Exam of Zoology (Part 1: Invertebrates) Date: 27/12 /2014

Faculty of science Zoology Department

Total Time: 3 hrs

Answer the following questions: (45 marks)

1-Choose the correct answer (10 marks)

- 1-Infective stage of Heterophyes Heterophyes is

 - c. Encysted metacercaria in fish muscle
- 2-Bulinus truncatus is the intermediate host of
 - a. Schistosoma mansoni
 - c. Schistosoma japonicum.

- b. Encysted metacercaria on gras
- d. None of the above
- b. Schistosoma haematobium
- d. All of the above
- 3-The laboratory diagnosis of Ascaris lumbricoides is made by finding.
 - a. eggs

b. adult worms

c.larva

- d. a&b
- 4-All of these parasites are pathogenic EXCEPT
 - a. Entamoeba histolytica
- b. Trypanosoma

c. Amoeba

- d. Fasciola
- 5-The following are diagnostic features of Schistosoma mansoni EXCEPT
 - a. Anemia

b. Enlargment of liver and spleen

c. severe dysentery

- d. Inflamatory of bladder
- 6-Which disease transmitted by culex mosquitoes
 - a. Malaria

b. Trypanosomiasis

c. Elphantiasis

- d. a& c
- 7-The rhabditiform larva of Anclystoma duodenale can be detected in
 - a. Stool

b.Urine

c. Soil

- d. a & b
- 8-Cysticercus bovis is the larval form of
 - a. Taenia saginata

b. Teania solium

c. Ancylostoma

- d. Ascaris
- 9- Plasmodium malaria moved by
 - a. Cilia

b. Pseudopodia

c.Flagella

d. Non of the above

| owing characters EXCEPT |
|--|
| b. The worms are segmented |
| d. Hermaphrodite |
| wing sentences and corrects the false ones :(10 marks) |
| phrodites (10 marks) |
| otozoa sexual reproduction () |
| ound in seawater sponges |
| e tentacles and umbrella surfaces of hydra () |
| pancrofti) lives in lymphatic system of man () |
| (25 marks) |
| ys compare between the two species of Teania |
| 2-Length 3-Scolex |
| 5-Number of testes 6-infective stage |
| 8- Definitive host |
| gambiense, illustrating how the infection of definitive host |
| |



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Faculty of science Zoology Department

Pre-pharmacy year Exam of Zoology (Part 2: Cytology) Date: 23/01/2013 Total Time: 3 hrs

Answer the following questions: (45 marks)
Note: Part 2 is 3 questions in 1 page

| | (\checkmark) or (x) symbols on the following sentences, <u>describe why for false one</u> : (10 |
|---|--|
| = 2 f i) ii) iii) iv) v) | Marks for each) The rough endoplasmic reticulum has an important role in lipid synthesis, detoxification and other metabolic processes. () The Golgi apparatus mainly composed from the forming face or trans-Golgi network and maturing face, or cis-Golgi network. () Ribosomes are found on the outer surfaces of the nuclear envelope. () The chromosomal crossover occurs in the prophase II from the mitotic divisions. () Peripheral proteins penetrate the hydrophobic core of the lipid bilayer. () |
| Con | aplete the following contanges: (15 - 2 Marks for each) |
| i) ii) iii) | In, a cell membrane engulfs a particle by Wrapping pseudopodia around it; but in, the cell membrane "gulps" droplets of extracellular fluid into tiny-vesicles. In desmosomes cell junction, proteins form the actual anchor; but in, integrins proteins form the actual anchor. The DNA molecule composed from, and |
| iv) v) | The early prophase of the mitotic division characterized with, and |
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| | te short notes "With drawing" on the following: Molecular structure of the Mitochondria. (10 Marks) |
| ii) | Molecular structure of the plasma membrane. (10 Marks) |
| | shesDr. Aziz Awaad |
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