

Structural Organisation In Animals

1. Answer in one word or one line.

- (i) Give the common name of *Periplanata americana*.
- (ii) How many spermathecae are found in earthworm?
- (iii) What is the position of ovaries in cockroach?
- (iv) How many segments are present in the abdomen of cockroach?
- (v) Where do you find Malpighian tubules?

2. Answer the following:

- (i) What is the function of nephridia?
- (ii) How many types of nephridia are found in earthworm based on their location?

3. Draw a labelled diagram of the reproductive organs of an earthworm.

4. Draw a labelled diagram of alimentary canal of a cockroach.

5. Distinguish between the followings

- (a) Prostomium and peristomium
- (b) Septal nephridium and pharyngeal nephridium

6. What are the cellular components of blood?

7. What are the following and where do you find them in animal body.

- (a) Chondriocytes
- (b) Axons
- (c) Ciliated epithelium

8. Describe various types of epithelial tissues with the help of labelled diagrams.

9. Distinguish between

- (a) Simple epithelium and compound epithelium
- (b) Cardiac muscle and striated muscle
- (c) Dense regular and dense irregular connective tissues
- (d) Adipose and blood tissue
- (e) Simple gland and compound gland

10. Mark the odd one in each series:

- (a) Areolar tissue; blood; neuron; tendon
- (b) RBC; WBC; platelets; cartilage
- (c) Exocrine; endocrine; salivary gland; ligament
- (d) Maxilla; mandible; labrum; antennae
- (e) Protonema; mesothorax; metathorax; coxa

11. Match the terms in column I with those in column II:

Column I

- (a) Compound epithelium
- (b) Compound eye
- (c) Septal nephridia
- (d) Open circulatory system
- (e) Typhlosole
- (f) Osteocytes
- (g) Genitalia

Column II

- (i) Alimentary canal
- (ii) Cockroach
- (iii) Skin
- (iv) Mosaic vision
- (v) Earthworm
- (vi) Phallomere
- (vii) Bone

12. Mention briefly about the circulatory system of earthworm

13. Draw a neat diagram of digestive system of frog.

14. Mention the function of the following

- (a) Ureters in frog
- (b) Malpighian tubules
- (c) Body wall in earthworm