



BIOLOGY

BOOKS - NCERT BIOLOGY (HINGLISH)

STRUCTURAL ORGANISATION IN ANIMALS

Multiple Choice Questions Mcqs

1. Which one of the following types of cell is involved in making of the inner walls of large blood vessels ?

- A. Cuboidal epithelium
- B. Columnar epithelium

C. spumous epithelium

D. stratifed epithelium

Answer:



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2. To which one of the following categories does adipose tissue belong ?

A. Epithelial

B. Connective

C. Muscular

D. Neural

Answer:



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3. Which of the following is not a connective tissue ?

A. Bone

B. Cartilage

C. Blood

D. Muscles

Answer: D



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4. The clitellium is a distinct part in the body of earthworm, it is found in

A. segment 13-14-15

B. segment 14-15-16

C. segment 12-13-14

D. segment 15-16-17

Answer:



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5. Setae help in locomotion in earthworm but are not uniformly present in all the segments. They are present

in

- A. 1st segment
- B. last segment
- C. clitellar segment
- D. 20th -22 nd segment

Answer:



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6. Which one of the following statement is true for cockroach ?

- A. the number of ovarioles in each ovary are ten

B. the larval stage is called caterpillar

C. anal styles are absent in females

D. they are ureotelic

Answer:



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7. Match the following .

| Column I | Column II |
|----------------------------|------------------|
| A. Adipose tissue | 1. Nose |
| B. Stratified epithelium | 2. Blood |
| C. Hyaline cartilage | 3. Skin |
| D. Fluid connective tissue | 4. Fat storage |

A. $\begin{matrix} A & B & C & D \\ 1 & 2 & 3 & 4 \end{matrix}$

- B. $\begin{matrix} A & B & C & D \\ 4 & 3 & 1 & 2 \end{matrix}$
- C. $\begin{matrix} A & B & C & D \\ 3 & 1 & 4 & 2 \end{matrix}$
- D. $\begin{matrix} A & B & C & D \\ 2 & 1 & 4 & 3 \end{matrix}$

Answer: B



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8. match the following .

| Column I | Column II |
|-----------------------------|---|
| A. Hermaphrodite | 1. Produces blood cells and haemoglobin |
| B. Direct development | 2. Testis and ovary in the same animal |
| C. Chemoreceptor | 3. Larval form absent |
| D. Blood gland in earthworm | 4. Sense of chemical substances |

- A. $\begin{matrix} A & B & C & D \\ 2 & 3 & 4 & 1 \end{matrix}$
- B. $\begin{matrix} A & B & C & D \\ 3 & 2 & 4 & 1 \end{matrix}$

C.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 1 | 3 | 2 | 4 |

D.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 2 | 4 | 3 | 1 |

Answer:



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9. Match the following with reference to cockroach and choose the correct option

- | | | |
|------------------|-------|---------------------------------|
| A. Phallomere | (i) | Chain of developing ova |
| B. Gonopore | (ii) | Bundles of sperm |
| C. Spermatophore | (iii) | Opening of the ejaculatory duct |
| D. Ovarioles | (iv) | The external genitalia |

A.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 3 | 4 | 2 | 1 |

B.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 4 | 3 | 2 | 1 |

C.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 4 | 2 | 3 | 1 |

D.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 2 | 4 | 3 | 1 |

Answer:



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10. match the following .

| Column I | | Column II | |
|-----------------|-------------------|------------------|---------------------------|
| A. | Touch | 1. | Nasal epithelium |
| B. | Smell | 2. | Foramen magnum |
| C. | Cranial nerves | 3. | Sensory papillae |
| D. | Medulla oblongata | 4. | Peripheral nervous system |

A.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 3 | 1 | 2 | 4 |

B.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 2 | 1 | 4 | 3 |

C.

| | | | |
|----------|----------|----------|----------|
| <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> |
| 3 | 4 | 2 | 1 |

D. (A, B, C, D), (3, 1, 4, 1, 2

Answer:



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Very Short Answer Type Questions

1. state the number of segments in earthworm which are covered by a prominent dark band or clitellum.



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2. where are sclerites present in cockroach ?



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3. How many times do nymphs moult to reach the adult form of cockroach ?



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4. identify the sex Of a frong in which sound producing vocal sacs are present .



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5. name the process by which a tadpole devlops into an adult frog .



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6. what is the scientific term given to earthworm's body segments ?



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7. A muscle fibre tapers at both ends and does not show striations , Name the muscle fibre.



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8. Name the different cell functions found in tissues



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9. give two identify features of an adult male frog .

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10. which mouth part of cock roch is comparrable to our tongue ?

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11. the digestive system of frog is made of the following parts , Arrange them in an order beging from mouth .

Mouth oesophagus , buccal cavity , stomach , intestine , cloaca , rectum cloacal aperture .

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12. what is the difference between cutaneous and pulmonary respiration ?

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13. Special venous connection between liver and intestine and between kidney and intestine is found in frog , what are they called ?

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Short Answer Type Questions

1. give the locations of hepatic caeca in a cockroach , what is their function ?



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2. Frogs are beneficial for mankind juskind , justify the statement .



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3. the body of sponges does not pass tissue level of organisation though it is made of thousands of cells ,
Comment.

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4. Structural organisation in animals attains different levels as cell - organ system , what is missing in this chain ? Mention the significance of such and organisation .

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5. stratified epithelial cells have limited role in secretion ,
Justify their role in our skin .



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6. How does a gap junctions facilitate intercellular communication ?



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7. why are blood bone and cartilage called connective tissue ?



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8. why are neurons called excitable cells ? Mention special features of the membrane of the neuron .

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9. why earthworm is called the friend of farmer ?

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10. How do you distinguish between dorsal and ventral surface of the body of earthworm ?

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11. Correct the wrong statements among the following the following .

A. In earthworm a single male genital pore is present .

B. Setae help in locomotion of earthworm .

C. Muscular layer in the body wall of earthworm is made up of only circular muscles.

D. Typhlosole is the part of intestine of earthworm .

Answer:



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12. why nephridia in earthworm that are basically similar in structure classifiee into three types ? Mention the names of each .

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13. Common name of some animals are given in column I , write their scientfic name in column II

| Column I | Column II |
|-------------|-----------|
| A. Tiger | |
| B. Peacock | |
| C. Housefly | |

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14. Complete the following statements.

A. In cockroach grinding of food particle is performed
by

B. Malpighian tubulae help in removal of

C. Hind gut of cockroach is differentiated into

D. In cockroach blood vessels open into spaces called
.....

Answer:



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15. Mention special features of eye in cockroach. Discuss compound eye in arthropods and mention its structural features.

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16. Frog is a poikilotherm, exhibits camouflage and undergoes aestivation and hibernation. How are all these beneficial to it?

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17. Write the functions in brief in column II appropriate to the structures given in column I.

| Column I | Column II |
|-------------------------|-----------|
| A. Nictitating membrane | 1. |
| B. Tympanum | 2. |
| C. Copulatory pad | 3. |

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18. write the functions in brief in column II appropriate to the structures given in column I.

| Column I | Column II |
|-------------------------------------|-----------|
| A. Secretion and absorption | 1. |
| B. Protective covering | 2. |
| C. Linking and supporting framework | 3. |

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19. Using appropriate examples , differentiate between false and true body segmentation .



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20. what is special about tissue present in the heart?



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Long Answer Type Questions

1. Classify and Describe epithelial tissue on the basis of structural Modifications of cells .

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2. write down the common features of the connective tissue .On the basis of structure and function .Differentiate between bones and cartilages .

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3. Comment upon the gametic exchange in earthworm during . Discuss the physiology in reproduction of earthworm.



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4. Explain the digestive of cocktem of cockroch with the help of a labelled sketch .



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5. Draw a neat and well labelled diagram of male reproductive system of a frog.



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