



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

STRUCTURAL ORGANISATION OF ANIMALS

**Textual Evaluation Solved | Choose The Correct
Answer**

1. In leech locomotion is performed by

A. Anterior sucker

B. Posterior sucker

C. Setae

D. None of the above

Answer: D



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2. The segments of leech are known as

A. Metameres (somites)

B. Proglottids

C. Strobila

D. All the above

Answer: A



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3. Pharyngeal ganglion in leech is a part of

- A. Excretory system
- B. Nervous system
- C. Reproductive system
- D. Respiratory system

Answer: B



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4. The brain of leech lies above the

A. Mouth

B. Buccal Cavity

C. Pharynx

D. Crop

Answer: C



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5. The body of leech has

A. 23 segments

B. 33 segments

C. 38 segments

D. 30 segments

Answer: B



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6. Mammals are animals.

A. Cold blooded

B. Warm blooded

C. Poikilothermic

D. All the above

Answer: B



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7. The animals which give birth to young ones are

A. Oviparous

B. Viviparous

C. Ovoviviparous

D. All the above

Answer: D



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Textual Evaluation Solved li Fill In The Blanks

1. The posterior sucker is formed b y th e fusion of the _____ segments.



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2. The existence of two sets of teeth in the li fe of an animal is called _____ dentition.



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3. The anterior end of leech has a lobe-like structure called _____ .



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4. The blood sucking habit of leech is known as _____ .



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5. _____ separate nitrogenous waste from the blood in rabbit.



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6. _____ spinal nerves are present in rabbit.



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Textual Evaluation Solved Iii Identify Whether The Statements Are True Or False Correct The False Statement

1. An anticoagulant present in saliva of leech is called heparin.



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2. The vas deferens serves to transport the ovum.



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3. The rabbit has a third eyelid called tympanic membrane which is movable.



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4. Diastema is a gap between premolar and molar teeth in rabbit.



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5. The cerebral hemispheres of rabbit are connected by band of nerve tissue called corpora quadrigemina. (False)

Correct Statement: The cerebral hemisphere of rabbit are connected by band of nerve tissue called Corpus cellosum.



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Textual Evaluation Solved Iv Match The Columns I Ii And Iii Correctly

Organs	Membranous Covering	Location
Brain	pleura	abdominal cavity
Kidney	capsule	mediastinum
Heart	meninges	enclosed in thoracic cavity
1. Lungs	pericardium	cranial cavity



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Textual Evaluation Solved V Answer In A Sentence

1. Give the common name of the *Hirudinaria granulosa*.



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2. How does leech respire?



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3. Write the dental formula of rabbit.



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4. How many pairs of testes are present in leech?



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5. How is diastema formed in rabbit?



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6. What organs are attached to the two bronchi?



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7. Which organ acts as suction pump in leech?



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8. What does CNS stand for



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9. Why is the teeth of rabbit called heterodont?



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10. How does leech suck blood from the host?



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1. Why are the rings of cartilages found in trachea of rabbit?



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2. List out the parasitic adaptations in leech.



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Textual Evaluation Solved Vii Long Answer Questions

1. How is the circulatory system designed in leech to compensate the heart structure?



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2. How does locomotion take place in leech?



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3. Explain the male reproductive system of rabbit with a labelled diagram.



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Textual Evaluation Solved Viii Higher Order Thinking Skills Hots

1. Arjun is studying in tenth standard. He was down with fever and went to meet the doctor. As he went to the clinic he saw a patient undergoing treatment for severe leech bite. Being curious, Arjun asked the doctor why leech bite was not felt as soon as it attaches to the skin? What would have been the reply given by the doctor?



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2. Shylesh has some pet animals at his home. He has few rabbits too. One day while feeding them he observed something different with the teeth. He asked his grandfather, why is it so? What would have been the explanation of his grandfather?



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Textual Evaluation Solved Ix Value Based Questions

1. Leeches do not have an elaborate secretion of digestive juices and enzymes - Why?



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2. How is the digestive system of rabbit suited for herbivorous mode of feeding?



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Additional Questions I Match The Following

1. Match the following.

- | | |
|-------------------|----------------------|
| 1. Segmentation | – (a) Hirudin |
| 2. Gregarious | – (b) Vagina |
| 3. Blood clotting | – (c) Metamerism |
| 4. Four chambered | – (d) Move in groups |
| 5. Oviducts | – (e) Septum |



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Additional Questions II Choose The Correct Pair

1. Choose the correct pair.

A. Vas deferens and Epididymis

B. Ovary and Caeca

C. Hirudin and Stomach

D. Nephridia and Papillae

Answer: A



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2. Choose the correct pair.

A. Ureter and Dermis

B. Clitella and Mouth

C. Vagina and Egg case

D. Sucker and Small intestine

Answer: C



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3. Choose the correct pair.

A. Suckers and Mammary glands

B. Cowper's gland and Perineal gland

C. Forebrain and oesophagus

D. Cellulose and Colouration

Answer: B



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4. Choose the correct pair.

A. Mouth and Metamerism

B. Ganglion and Colon

C. Intestine and Integument

D. Expiration and Inspiration

Answer: D



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5. Choose the correct pair.

A. Sweat glands and Sebaceous glands

B. Triradiate and Thoracic

C. Trachea and Tricuspid

D. Seminiferous and Sansuivorous

Answer: A



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Additional Questions Iii Fill In The Blanks

1. In leech, the tissue, lies beneath longitudinal muscles and fills the entire coelon around the gut.



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2. teeth are absent in Rabbit.



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3. Digestion of a leech takes place in the stomach by _____ enzyme.



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4. The anterior part of the wind pipe is enlarged to formor..... .



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5. The opening of the pulmonary artery and Aorta are guarded by three valves.



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6. The coelomic fluid contains



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7. The Jaws of Leeches are provided with

.



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8. The pain of testes is enclosed by a sac called

..... .



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9. Central Nervous System consists ofand..... .



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10. The autonomic nervous system comprises of sympathetic and _____ nerves.



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11. Each kidney is made up of several _____ .



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12. In Rabbits, as male and female sexes are separate,is exhibited



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13. The other name for voice box isand the other name for the wind pipe is..... .



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14. The right and left ventricles are separated by



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15. The external ear or is situated at the top of the head in Rabbits.



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Additional Questions Iv Choose The Correct Answer

1. The largest portion of Alimentary Canal in Leech is

A. Mouth

B. Pharynx

C. Oesophagus

D. Crop

Answer: D



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2. In Leech, the dense network of tiny blood vessels, containing Haemocoelic fluid is called..... .

A. Artery

B. Capillaries

C. Vein

D. Blood Vessel

Answer: B



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3. The body wall of a leech comprises of _____ layers

A. 2

B. 3

C. 5

D. 4

Answer: C



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4. In female Rabbits, these four or five structures are present on the ventral surface between the thorax and abdomen

A. Nipples or Trets

B. Limbs

C. Vibrissae

D. Diaphragm

Answer: A



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5. In male rabbits, this structure is found in the Ventral side of Anus

A. Claws

B. Sweat glands

C. Penis

D. Abdomen

Answer: C



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Additional Questions V Read The Following Statements And Correct Them If It Is Not True

1. Dorsal surface of Leech is Orange Yellow or Red in colour. (False)

Correct Statement: Dorsal surface of Leech is Olive green in colour.



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2. Clitellum is formed on segments 9 to 11, which is meant to produce cocoon, during the

breeding season. (True)



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3. On the lower side of the thoracic cavity, is the dome shaped _____ .



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4. Mammary glands are the modified glands of the skin. (True)



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5. The supra pharyngeal ganglion lies below the Pharynx and is formed by the fusion of four pairs of Ganglia. (False)

Correct Statement: The sub pharyngeal ganglion lies below the Pharynx and is formed by the fusion of four pairs of Ganglia.



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Additional Questions Vi Find The Odd One Out

1. Cuticle, Epidermis, Sphincters, Muscular layer.



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2. Undigested food, Genital pore, Rectum, Anus.



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3. Gregarious, Thorax, Abdoment, Pinnae.





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4. Nephrons, Nitrogenous waste, Scrotal Sac,
Urea.



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5. Teats or Nipples, Hairs, Claws, Nails



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Additional Questions V Answer The Following In A Word Or Sentence

1. Where is mouth located in Leech?



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2. The scientific name of common rabbit is

_____.



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3. What is Epiglottis?



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4. How many pairs of cranial nerves are there in Peripheral Nervous System?



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5. Where are Annular and Segmental receptors located?



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6. What are Vibrissae?



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7. The existence of two sets of teeth in the life of an animal is called _____ dentition.



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8. Which glands regulate the body temperature of Rabbits?



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Additional Questions Vii Answer Briefly

1. Explain the Excretory System of Leech briefly.



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2. What do you know about the Trunk of Rabbit.



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3. What are Receptors? Write a short note on Receptors.



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4. What are diphyodont dentition and Heterodont dentition?



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5. Name three accessory glands, which involve in male reproductive system of Rabbit.



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6. Name the following:(a) Three membranes, which cover the Brain in Rabbit

(b) Division of brain



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7. Explain the Respiratory system of Leech.



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8. With the Tabular Column, mention the Divisions of the body of Leech.



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9. Short notes on Nervous System of Leech.



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Additional Questions Viii Label The Following Diagrams

1. Draw and label the female Reproductive System of Rabbit.



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2. Draw the digestive system of leech and label the parts.



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3. Draw and label the Brain of Rabbit.



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4. Draw and label the Lung of Rabbit.



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Additional Questions | Answer The Following In Detail

1. Explain the digestive system of Rabbit.



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2. Explain the male and the female Reproductive system of Leech with a neat labelled diagram.



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3. Explain the Circulatory system of Rabbit with a neat labelled diagram of a Heart.



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Additional Questions Ix Higher Order Thinking Skills Hots

1. How were Leeches used in Ancient times?



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2. How are Leeches used in modern times?



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3. What is the benefit of Rabbit?



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