



BIOLOGY

BOOKS - PREMIERS PUBLISHERS

STRUCTURAL ORGANISATION OF ANIMALS

Textbook Evaluation Choose The Best Answer

1. In leech locomotion is performed by

- A. Anterior sucker
- B. Posterior sucker
- C. Setae
- D. None of the above

Answer: A



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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. Reproductive 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: B



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Textbook Evaluation Fill In The Blanks

1. The posterior sucker is formed by the fusion of the _____ segments.



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2. The existence of two sets of teeth in the life 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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Textbook Evaluation 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.



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**Textbook Evaluation Match Columns I ii And Iii
Correctly**

1. Match columns I, II and III correctly:

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



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Textbook Evaluation 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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Textbook Evaluation Short Answer Questions

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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Textbook Evaluation 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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**Textbook Evaluation 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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Textbook Evaluation Values 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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Other Important Questions Answers Choose The Correct Answer

1. The digestion of cellulose in rabbit takes place in:

A. vermiform appendix

B. colon

C. caecum

D. ileum

Answer: C



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2. Diastema is:

- A. A part of pelvic girdle in rabbit
- B. A type of tooth in rabbit
- C. Space in teeth line in mammals
- D. Structure in eye of rabbit

Answer: C



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3. Total number of incisors teeth in rabbit is :

A. 8

B. 6

C. 10

D. 4

Answer: B



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4. If the dental formula of rabbit is $\frac{2033}{1023}$.

What does it show?

- A. Total number of teeth in Rabbit is 15
- B. Number of total incisors in Rabbit is 3
- C. Diastema is present between incisors and premolars
- D. In the formula 2033 is for adult and 1023 is for young ones

Answer: C



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5. Number of pairs of salivary glands present in Rabbit is:

A. one

B. three

C. four

D. five

Answer: C



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6. Number of Vertebrae in rabbit is :

A. 44-47

B. 40-44

C. 42-48

D. 47-50

Answer: A



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7. If the diaphragm of a rabbit is perforated breathing is :

A. Not affected

B. Increased

C. Decreased

D. Stopped

Answer: D



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8. Tracheal rings in rabbit are :

A. Complete

B. dorsally incomplete

C. lateral incomplete

D. incomplete

Answer: B



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9. Which one of the following is not a characteristic of leech ?

A. closed circulatory system

B. segmentation

C. pseudo coelom

D. ventral nerve cord

Answer: C



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10. The blood vascular system, of rabbit is :

A. one type

B. closed type

C. semi closed type

D. semi open type

Answer: B



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11. The wall of Rabbit's heart is thick due to the presence of :

- A. Inner layer endocardium
- B. Middle layer myocardium
- C. Out layer pericardium
- D. Outer layer epicardium

Answer: B



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12. Leech belongs to the class :

A. Polychaeta

B. oligochaeta

C. hirundinea

D. archiannelida

Answer: C



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13. A temporary clitellum occur during the breeding season in :

A. Pheretima

B. Heteroneris

C. Hirundinaria

D. Aphrodile

Answer: C



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14. Saliva of leeches contains an anti coagulation called :

A. Heparin

B. Histamine

C. Hirudin

D. Haematin

Answer: C



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Other Important Questions Answers Fill In The Blanks

1. Hirudinaria granulosa belong to the phylum
.....



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2. The scientific name of common rabbit is
_____.



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3. is the segmentation of the body.



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4. _____ movement of a leech is brought about by contraction and relaxation of muscles.



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5. In leech, the digestive takes place in stomach by the action of



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6. The Prevents the entry of food into the trachea through the glottis.



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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. _____ contains bacteria, that helps in digestion of cellulose in a rabbit.



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9. The anterior part of the oviduct in rabbit is

.....



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10. Breathing movement in mammals are

brought by



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Other Important Questions Answers Identify
Whether The Statement Are True Or False

Correct The False Statement

1. Mammary gland in male is the most striking feature of mammals.



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2. The leech makes a triradiate or y-shaped incision in the skin of the host by the jaws protrude through the mouth.



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3. Crop and its diverticular in leech can store large amount of blood which can be slowly digested.



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4. Breathing movement in Rabbit are brought by the movement of vibrissae.



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5. In rabbit pair of Cowper's gland and perineal gland are present only in the male.



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Other Important Questions Answers Match The Following

1. Match the following :

Column I		Column II	
A	Gregarious	(i)	blood sucking
B	Sanguivorous	(ii)	cocoon
C	Clitellum	(iii)	whiskers
D	Vebrissae	(iv)	different types of teeth
E	Heterodont	(v)	moving in groups



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Other Important Questions Answers Answer In A Sentence

1. Excretory organ of leech.



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2. List out the structures derived from the skin of rabbit.





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3. Where is the brain of rabbit located?



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4. What is other name of whiskers in rabbit?



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5. Which type of rabbit are endangered species?



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6. The scientific name of common rabbit is

_____.



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7. Why Rabbits are called gregarious animals?



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8. Which animals are called sanguivorous?



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9. What are nephridiopores?



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[Other Important Questions Answers Short Answer Questions](#)

1. Write the systematic position of Indian Cattle Leech.



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2. Explain the types of coelom in leech.



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3. How does leech respire?



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4. What is hermaphrodite?



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5. Name is five layers of body wall of leech.



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6. Give the systematic position of Rabbit .



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7. Mention the Medicinal value of Leech.



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8. List out the steps involved in Inspiration in Rabbit.



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[Other Important Questions](#) [Answers](#) [Long Answer Questions](#)

1. Compare the digestive system of Leech and Rabbit.



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2. Explain the hermaphrodite structure of Leech.



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