

India's Number 1 Education App

# BIOLOGY

# BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

# STRUCTURAL ORGANISATION OF ANIMALS

Textual Evaluation Solved I 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

2. The segments of leech are known as

A. Metameres (somites)

**B.** Proglottids

C. Strobila

D. All the above

Answer: A

3. Pharyngeal ganglion in leech is a part of

A. Excretory system

B. Nervous system

C. Reproductive system

D. Respiratory system

Answer: B

4. The brain of leech lies above the

A. Mouth

- **B. Buccal Cavity**
- C. Pharynx
- D. Crop

Answer: C



- 5. The body of leech has
  - A. 23 segments
  - B. 33 segments
  - C. 38 segments
  - D. 30 segments

Answer: B



6. Mammals are ..... animals.

A. Cold blooded

B. Warm blooded

C. Poikilothermic

D. All the above

Answer: B

7. The animals which give birth to young ones

are

A. Oviparous

**B.** Viviparous

C. Ovoviviparous

D. All the above

Answer: D

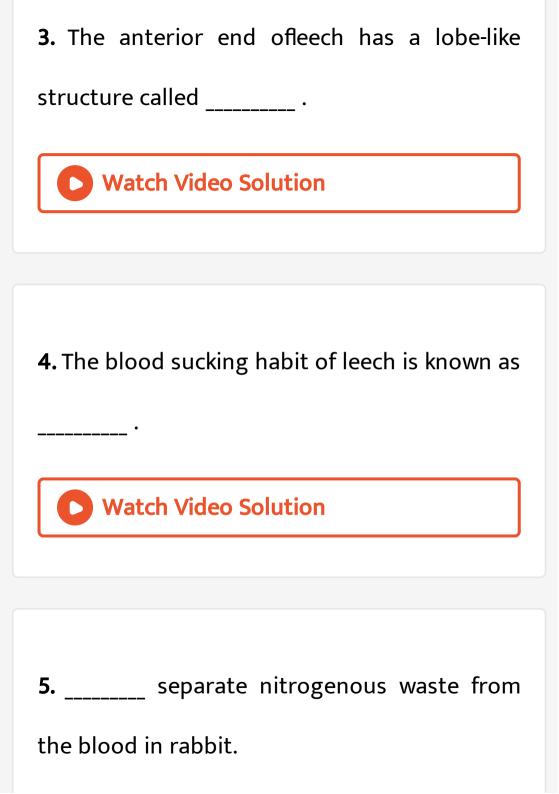
1. The posterior sucker is formed by the

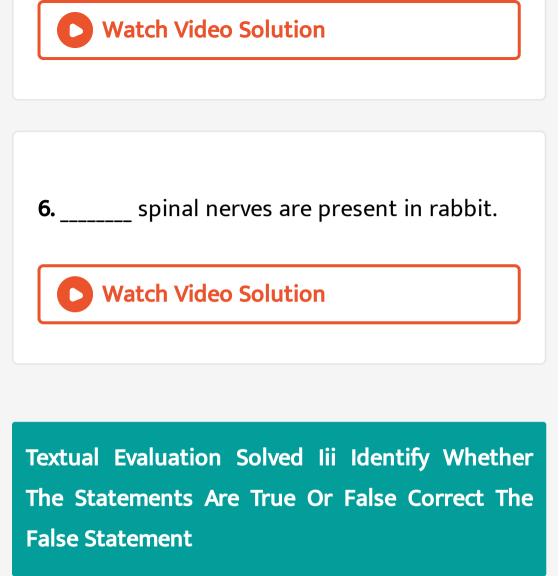
fusion of the \_\_\_\_\_ segments.

Watch Video Solution

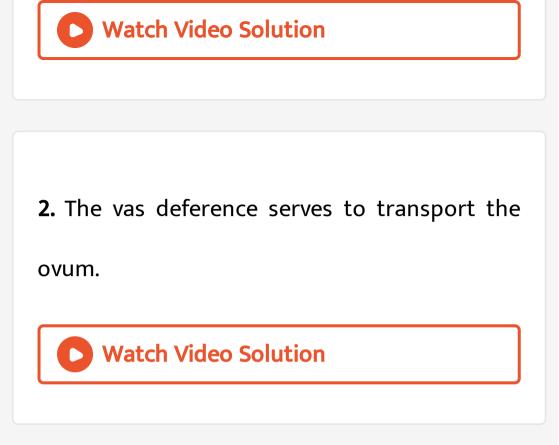
2. The existence of two sets of teeth in the li fe

of an animal is called \_\_\_\_\_ dentition.





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



### 3. The rabbit has a third eyelid called tympanic

membrane which is movable.

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



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.

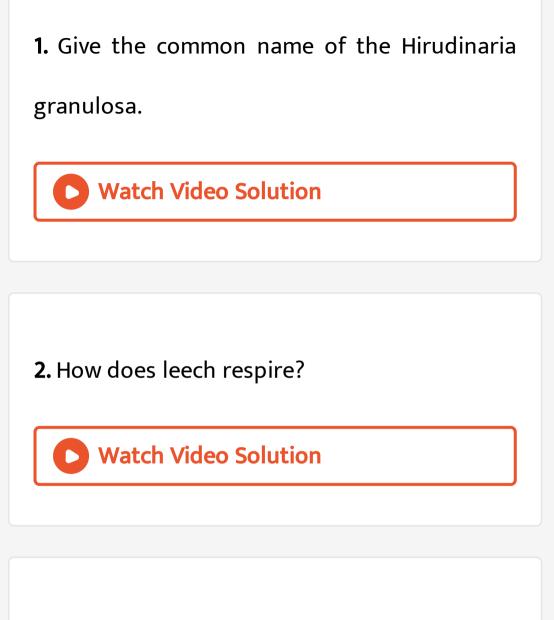


### Textual Evaluation Solved Iv Match The Columns I Ii And Iii Correctly

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

#### Watch Video Solution

Textual Evaluation Solved V Answer In A Sentence



**3.** Write the dental formula of rabbit.

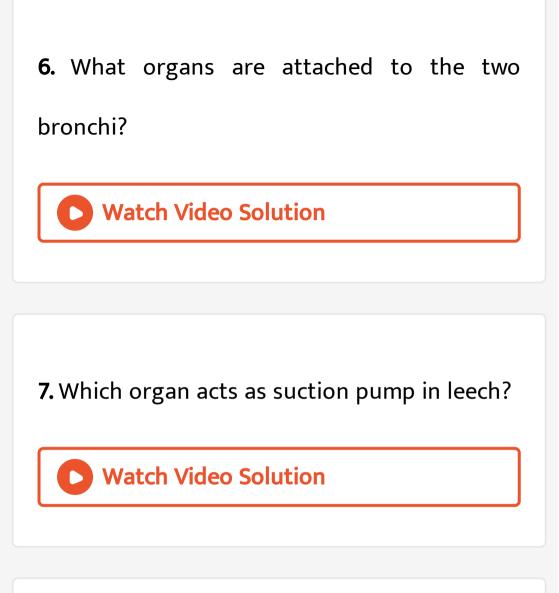
4. How many pairs of testes are present in

leech?



#### **5.** How is diastema formed in rabbit?





8. What does CNS stand for

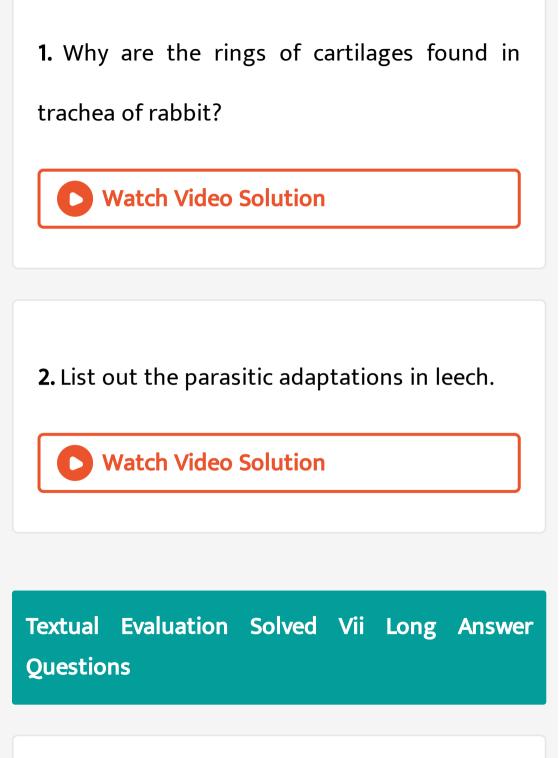
**9.** Why is the teeth of rabbit called heterodont?

Watch Video Solution

#### 10. How does leech suck blood from the host?



Textual Evaluation Solved Vi Short Answer Questions



1. How is the circulatory system designed in

leech to compensate the heart structure?



**2.** How does locomotion take place in leech?



3. Explain the male reproductive system of

rabbit with a labelled diagram.



## 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 doct, or why leech bite was not felt as soon as it attaches to the skin? What would have been the reply given by the doctor?

2. Shylesh has some pet animals at his ho.me. 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?

1. Leeches do not have an elaborate secretion

of digestive juices and enzymes - Why?

Watch Video Solution

### 2. How is the digestive system of rabbit suited

for herbivorous mode of feeding?

#### 1. Match the following.

- 1. Segmentation
- 2. Gregarious
- 3. Blood clotting
- 4. Four chambered
- 5. Oviducts

- (a) Hirudin
- (b) Vagina
- (c) Metamerism
  - (d) Move in groups
    - (e) Septum

Watch Video Solution

#### 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

Watch Video Solution

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

- **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

Watch Video Solution

4. Choose the correct pair.

A. Mouth and Metamerism

B. Ganglion and Colon

C. Intestine and Integument

D. Expiration and Inspiration

#### Answer: D

Watch Video Solution

**5.** Choose the correct pair.

A. Sweat glands and Sebaceous glands

B. Triradiate and Thoracic

C. Trachea and Tricuspid

D. Seminiferous and Sansuivorous



### Additional Questions Iii Fill In The Blanks

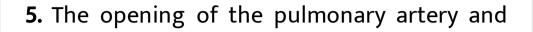
**1.** In leech, the ..... tissue, lies beneath longitudinal muscles and fills the entire coelon around the gut

around the gut.

<b>2.</b> teeth are absent in Rabbit.		
<b>Watch Video Solution</b>		
<b>3.</b> Digestion of a leech takes place in the		
stomach by enzyme.		
<b>Watch Video Solution</b>		

**4.** The anterior part of the wind pipe is

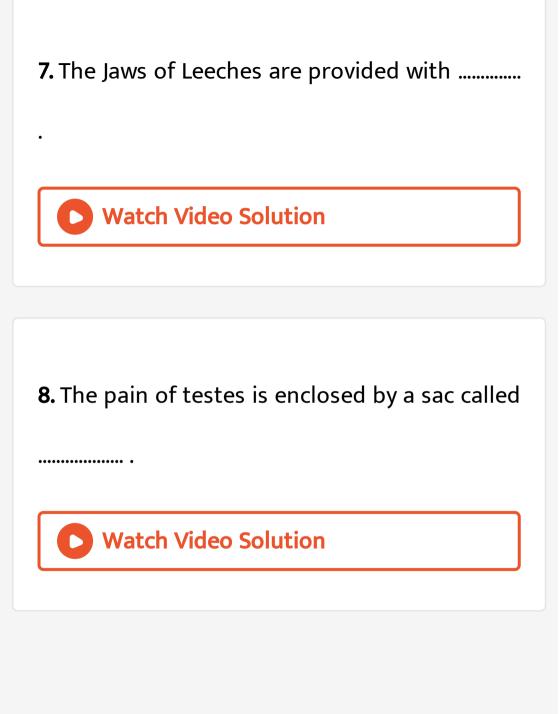


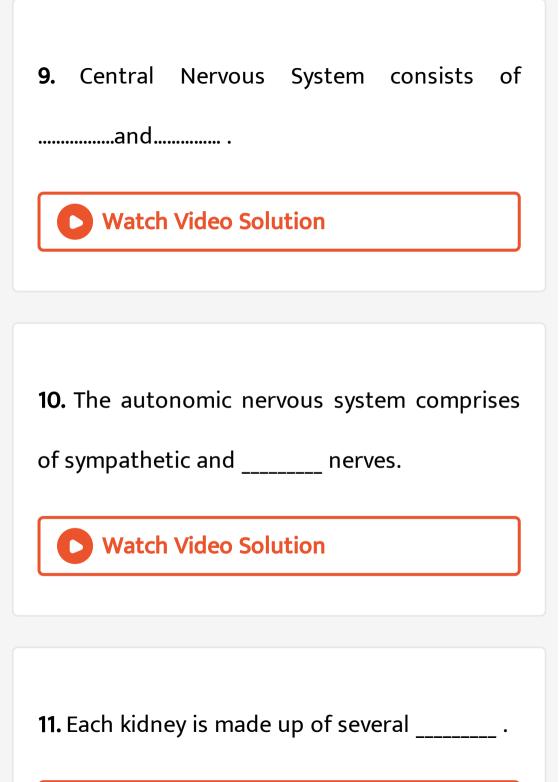


Aorta are guarded by three ...... valves.

Watch Video Solution

6. The coelomic fluid contains .....







13. The other name for voice box is .....and

the other name for the wind pipe is................

14. The right and left ventricles are separated

by ......



15. The external ear or ..... is situated at

the top of the head in Rabbits.

Watch Video Solution

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

A. Artery

**B.** Capillaries

C. Vein

D. Blood Vessel

Answer: B

3.	The	body	wall	of	а	leech	comprises	of
		layers						
	A. 2							
	B. 3							
	C. 5							
	D. 4							
Answer: C								

A. Nipples or Trets

B. Limbs

C. Vibrissae

D. Diaphragm

Answer: A

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

1. Dorsal surface of Leech is Orange Yellow or

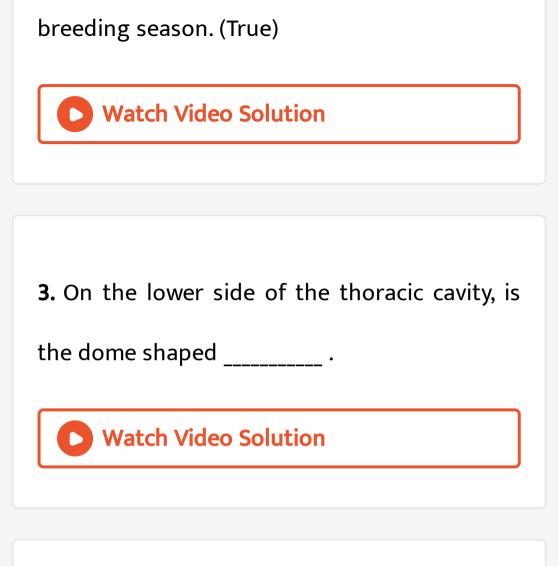
Red in colour. (False)

Correct Statement: Dorsal surface of Leech is

Olive green in colour.

Watch Video Solution

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



4. Mammary glands are the modified glands of

the skin. (True)



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.

Watch Video Solution

Additional Questions Vi Find The Odd One Out

1. Cuticle, Epidermis, Sphincters, Muscular

layer.



2. Undigested food, Genital pore, Rectum,

Anus.

Watch Video Solution

**3.** Gregarious, Thorax, Abdoment, Pinnae.





4. Nephrons, Nitrogenous waste, Scrotal Sac,

Urea.



5. Teats or Nipples, Hairs, Claws, Nails

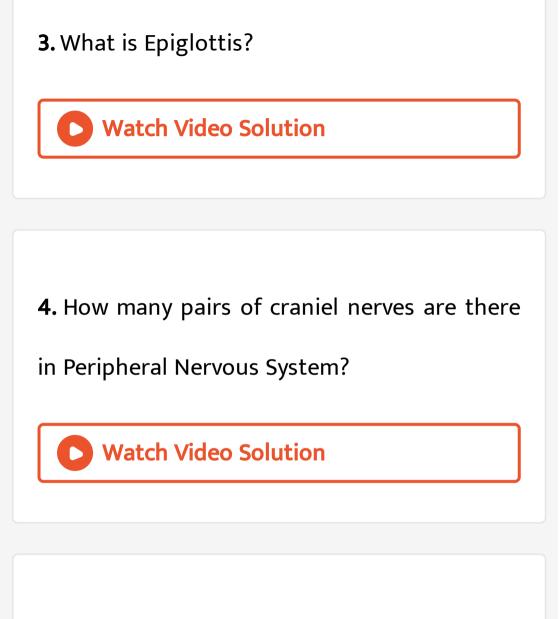


1. Where is mouth located in Leech?

**Watch Video Solution** 

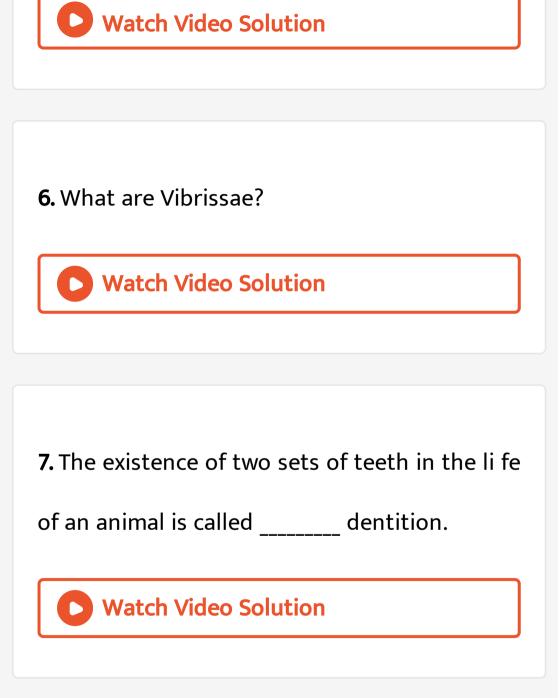
### 2. The scientific name of common rabbit is





5. Where are Annular and Segmental receptors

located?



8. Which glands regulate the body temperature of Rabbits?
Watch Video Solution

Additional Questions Vii Answer Briefly

**1.** Explain the Excretory System of Leech briefly.

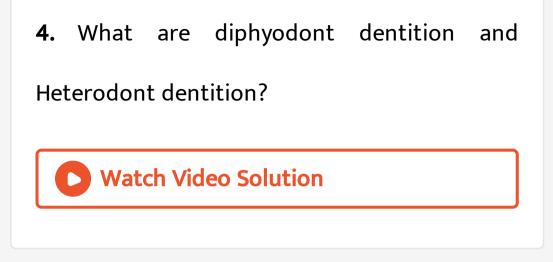
 What do you know about the Trunk of Rabbit.

Watch Video Solution

3. What are Receptors? Write a short note on

Receptors.





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



6. Name the following:(a) Three membranes,

which cover the Brain in Rabbit

(b) Division of brain



7. Explain the Respiratory system of Leech.



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

9. Short notes on Nervous System of Leech.

Watch Video Solution

Additional Questions Viii Label The Following Diagrams

1. Draw and label the female Reproductive

System of Rabbit.



2. Draw the digestive system of leech and label

the parts.

Watch Video Solution

3. Draw and label the Brain of Rabbit.



4. Draw and label the Lung of Rabbit.

Watch Video Solution

# Additional Questions Ix Answer The Following In Detail

**1.** Explain the digestive system of Rabbit.

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



3. Explain the Circulatory system of Rabbit

with a neat labelled diagram of a Heart.



**1.** How were Leeches used in Ancient times?

**Watch Video Solution** 

#### 2. How are Leeches used in modern times?



**3.** What is the benefit of Rabbit?

