



## BIOLOGY

### BOOKS - SARAS PUBLICATION

## ORGAN AND ORGAN SYSTEMS IN ANIMALS

#### Example

1. What does morphology mean?



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2. What does anatomy mean?



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3. What is hermaphrodite?



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4. What is meant by protandrous?



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5. Define vermiculture.



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6. Define vermicomposting.



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7. Define vermiwash.



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8. What is wormery?



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9. What is gonapohphysis?



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10. What is gynoalvular plates?

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11. What is anal cerci?

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12. What is metamorphosis in frog?

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**13.** Differentiate between peristomium and prostomium in earthworm.



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**14.** Differentiate between tergum and a sternum.



**Watch Video Solution**

**15.** Differentiate the male and female cockroaches.



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**16.** What are the differences between compound eyes and simple eyes.



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**17.** Differentiate between a frog and Toad.



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**18.** What characteristics are used to identify the earthworms?



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19. What are earthworm casts?



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20. How do earthworms breathe?



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21. Why do you call cockroach a pest?



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22. Comment on the functions of alary muscles?



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**23.** Name the visual units of the compound eyes of cockroach.



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**24.** How does the male frog attracts the female for mating?



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**25.** Describe the types of respiration seen in frog.



**Watch Video Solution**



26. Differentiate between peristomium and prostomium in earthworm.



**Watch Video Solution**

27. Differentiate between tergum and a sternum.



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28. Give the location of clitellum and spermathecal openings in *Lampito mauritii*.



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**29.** Head of cockroach is called Hypognathous. Why ?



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**30.** How respiration takes place in cockroach?



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**31.** What are the components of blood in frog?



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**32.** Explain the reproductive system of frog



**Watch Video Solution**

**33.** Explain the digestive system of frog.



**Watch Video Solution**

**34.** What does morphology mean?



**Watch Video Solution**

**35.** What does anatomy mean?



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**36.** Name the common Indian earthworm.



**Watch Video Solution**

**37.** What is clitellum in earthworm?



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**38.** What are the layers of the body wall of an earthworm?



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**39.** What is hydrostatic skeleton?



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**40.** What are the cells found in coelomic fluid of an earthworm?



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**41.** What is hermaphrodite?



[Watch Video Solution](#)

**42.** What is meant by protandrous?



[Watch Video Solution](#)

**43.** What is Vermitech?



**Watch Video Solution**

**44.** Define vermiculture.



**Watch Video Solution**

**45.** Write a short note on Vermitech and Vermiculture, Vermicomposting, Vermiwash.



**Watch Video Solution**

**46.** Define vermiwash.



**Watch Video Solution**

**47.** What is wormery?



**Watch Video Solution**

**48.** What is gonapophysis?



**Watch Video Solution**

**49.** What is gynovalvular plates?





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**50. Name the types of cockroach**



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**51. What is nictitating membrane?**



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**52. What are the components of central nervous system?**



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**53.** List the component of blood vascular



**Watch Video Solution**

**54.** Explain the nervous system of frog.



**Watch Video Solution**

**55.** What are the layers of the body wall of an earthworm?



**Watch Video Solution**

**56.** What are the different groups of earthworms?



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**57. What are setae?**



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**58. Write short notes on intestinal caecae.**



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**59. Write about the sense organs of earthworm.**



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**60.** Write shot notes on cocoon of earthworm.



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**61.** Differentiate the male and female cockroaches.



**Watch Video Solution**

**62.** What are the benefits of earthworms?



**Watch Video Solution**

**63.** Write about the legs of cockroaches.



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**64.** What is anal cerci?

 [Watch Video Solution](#)

**65.** Write about the sense organs of cockroach.

 [Watch Video Solution](#)

**66.** Write notes on photoreceptor of cockroach

 [Watch Video Solution](#)

**67.** What is the difference between compound eyes and simple eyes?



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**68.** Write a short note on ootheca.



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**69.** Write short notes on fore limbs of frog.



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70. Differentiate between Frog and Toad.



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71. Write short notes on hind limbs of frog



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72. Write about the tongue of frog.



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73. Write notes on blood of frog.





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**74.** Explain the excretory system of Frog.



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**75.** Name the stages of metamorphosis in frog.



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**76.** Write a note on the economic importance of frog and for what purpose its used as a traditional medicine?



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**77.** Describe the internal structure of Heart in Frog.



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**78.** Explain the morphology of limpito maruritii.



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**79.** Explain the digestive system of earthworm.



**Watch Video Solution**



**80.** Mention briefly about the circulatory system of earthworm



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**81.** Explain the nervous system of earthworm.



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**82.** Answer the following

(i) What is the function of nephridia?

(ii) How many types of nephridia are found in earthworm based on their location ?



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**83.** Explain the male reproductive system of the earthworm.



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**84.** Explain the female reproductive system of earthworm



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**85.** Explain the life cycle of Lampito mauritti



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**86.** What are the characteristics of cockroach?



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**87.** Write notes on the head of cockroach.



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**88.** Name the mouth parts of cockroach.



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**89.** Describe the thorax region of cockroach





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**90.** Draw the digestive system of cockroach.



**Watch Video Solution**

**91.** Explain the circulatory system of cockroach.



**Watch Video Solution**

**92.** Explain the nervous system of cockroach



**Watch Video Solution**

**93.** Explain the excretory system of cockroach



**Watch Video Solution**

**94.** Explain the male reproductive system of cockroach.



**Watch Video Solution**

**95.** Draw the female reproductive system cockroach?



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**96.** Describe the morphology of frog



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**97.** Describe the structure of digestive system of frog



**Watch Video Solution**

**98.** Explain the process of digestion in frog



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**99.** What is metamorphosis in frog? Mention the changes occur during the metamorphosis of frog.



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**100.** Write notes on blood vessels of frog.



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**101.** Write notes on Brain of frog



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## Exercise

**1.** Sexually, earthworms are

A. Sexes are separate

B. Hermaphroditic but not self fertilizing

C. Hermaphroditic and self fertilizing

D. Pathogenic

**Answer:**



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**2. The type of vision in Cockroach is**

A. Three dimensional

B. Two dimensional

C. Mosaic

D. Cockroach do not have vision



**Answer:**



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**3. Kidney of frog is**

A. Archinephros

B. Mesenephros

C. Pronephros

D. Metanephros

**Answer:**



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4. Bidder's canal in frog is found in

A. Liver

B. Testis

C. Ovary

D. Kidney

**Answer:**



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5. Select the correct order

A.

$$S\pi rac \leq s \rightarrow Tracheo \leq s \rightarrow Trachea \rightarrow Tissues$$

B.

$$Trachea \rightarrow Tracheo \leq s \rightarrow S\pi rac \leq s \rightarrow Tissues$$

C.

$$Tissues \rightarrow Trachea \rightarrow Tracheo \leq s \rightarrow S\pi rac \leq s$$

D.

$$S\pi rac \leq s \rightarrow Trachea \rightarrow Tracheo \leq s \rightarrow Tissues$$

**Answer:**



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6. Differentiate between tergum and a sternum.



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7. Describe the types of respiration seen in frog.



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8. What is gynoalvular plates?



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**15.** Describe the heart of frog.



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17. Explain the male reproductive system of frog.



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18. Explain the female reproductive system of frog.



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19. Name the common Indian earthworm.



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20. Explain the life cycle of *Lampito mauritti*



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21. The clitellum is a distinct part in the body of earthworm *Lampito mauritii*, it is found in?

A. Segments 13-14

B. Segments 14-17

C. Segments 12-13

D. Segments 14-16



**Answer:**



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**22. Sexually, earthworms are**

- A. Sexes are separate
- B. Hermaphroditic but not self-fertilizing
- C. Hermaphroditic and self-fertilizing
- D. Pathenogenic

**Answer:**



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**23.** State whether the statement is true or false. To sustain themselves, earthworms must guide their way through the soil using their powerful muscles. They gather nutrients by ingesting organic matter and soil, absorbing what they need into their bodies.

The two ends of the earthworm can equally ingest soil.

- a. True
- b. False



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**24.** The head region of Cockroach \_\_\_\_\_ pairs of \_\_\_\_\_ and \_\_\_\_\_ shape eyes occur.

A. One sessile compound and kidney.

- B. Two pairs, stalked compound and round shaped
- C. Many pairs, sessile simple and kidney shaped
- D. Many pairs, stalked compound and kidney shaped

**Answer:**



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**25.** The location and numbers of malpighian tubules in Periplaneta.

- A. At the junction midgut and hindgut, about 150.
- B. At the junction of foregut and midgut, about 150
- C. Surrounding gizzard, eight

D. At the junction of colon and rectum, eight.

**Answer:**



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**26.** The type of vision in Cockroach is

A. Three dimesntional

B. Two dimensional

C. Mosaic

D. Cockroach do not have vision

**Answer:**



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27. How many abdominal segments are present in male and female Cockroaches?

A. 10,10

B. 9,10

C. 8,10

D. 9,9

**Answer:**



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28. Which of the following have an open circulatory system?

A. Frog

B. Earthworm

C. Pigeon

D. Cockroach

**Answer:**



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29. Buccopharyngeal respiration in frog:

- A. Is increased when nostrils are closed
- B. Stops when there is pulmonary respiration
- C. Is increased when it is catching fly
- D. Stops when mouth is opened

**Answer:**



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**30. Kidney of frog is**

- A. Archinephros
- B. Pronephros
- C. Mesonephros

D. Metanephros

**Answer:**



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**31.** Presence of gills in the tadpole of frog indicates that

- A. fishes were amphibious in the past
- B. fishes involed from frog-like ancestors
- C. frogs will have gills in future
- D. frogs evolved from gilled ancestor

**Answer:**



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**32.** Choose the wrong statement among the following:

- A. In earthworms, a single male genital pore is present.
- B. Setae help in locomotion of earthworms.
- C. Muscular layer in the body wall of earthworm is made up of only circular muscles.
- D. Typhlosole is part of the intestine of earthworm.

**Answer:**



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**33.** Which of the following are the sense organs of Cockroach?

A. Antennae, compound eyes, maxillary palps, anal cerci

B. Antennae, compound eye, maxillary palps

C. Antennae, ommatidia, maxillary palps, sternum

D. Antennae, eyes, maxillary palps, and tarsus of walking legs

**Answer:**



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**34.** Earthworms have no skeleton but during burrowing, the anterior end becomes turgid and acts as a hydraulic skeleton. It is due to:

A. Coelomic fluid

B. Blood

C. Gut peristalsis

D. Setae

**Answer:**



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**35.** Which one of the following is the true description about an animal concerned?

A. Earthworm-The alimentary canal consists of a sequence of pharynx, oesophagus, stomach, gizzard and intestine

B. Frog- Body divisible into three regions-head, neck and trunk

C. Rat- Left kidney is slightly higher in position than the right one.

D. Cockroach-10 pairs of spiracles (2pairs on thorax and 8 pairs on abdomen)

**Answer:**



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**36.** Select the correct option with respect to cockroaches

- A. The fore wings are tegmina which are used in flight.
- B. Malpighian tubules convert nitrogenous wastes into urea,
- C. Males bear short anal styles not present in females
- D. Nervous system comprise of a dorsal nerve cord and ten pairs of ganglion

**Answer:**



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**37.** The terga, sterna and pleura of cockroach body are joined by

- A. Cementing glue
- B. Muscular tissue
- C. Arthrodial membrane
- D. Cartilage

**Answer:**



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**38.** In male cockroaches, sperms are stored in which part of the reproductive system?

- A. Testes
- B. Vas deferens
- C. seminal vesicles
- D. Mushroom glands

**Answer:**



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**39.** In case of common species of cockroach, morphologically which statement is correct

- A. The size of female is slightly bigger than male.
- B. In both male and female, numbers of abdominal segments are different.
- C. The size of male and female are equal.
- D. The size of male is slightly bigger than female.

**Answer:**



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**40.** Exoskeleton of periplaneta is protected due to-





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**41.** Head of the cockroach is formed by the fusion of - segments

- A. Six
- B. Four
- C. Two
- D. Eight

**Answer:**



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42. Each walking leg of Periplaneta is made up of \_\_\_\_\_ segments

A. Four

B. Five

C. Six

D. Nine

**Answer:**



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43. How many segments are present in the abdomen of the cockroach?

A. Eight

B. Ten

C. Seven

D. Nine

**Answer:**



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**44.** Which one of the folloiwng statements 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 ureptlic

**Answer:**



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**45.** Earthworms is brown due to presence of

A. Blood

B. Haemoglobin

C. Haemocyanin

D. Porphyrin

**Answer:**



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**46.** Salivary gland in earthworm is found in

- A. Pharyngeal wall
- B. Ventral wall of buccal cavity
- C. Dorsal wall of buccal cavity
- D. None of the above

**Answer:**



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**47.** Identify the excretory organs of cockroaches

- A. Malpighian tubules
- B. Septal nephridia
- C. Nephrons
- D. Integumentary nephridia

**Answer:**



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**48.** Segment of earthworm bearing mouth is

- A. Prostomium

B. Peristomium

C. Clitellum

D. Pygidium

**Answer:**



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**49.** Setae of earthworm is made up of \_\_\_\_\_



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**50.** Excretory organs of an earthworm are \_\_\_\_\_



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51. Chloragogen cells are involved in

- A. Digestion
- B. Respiration
- C. Excretion
- D. Fat.storage

**Answer:**



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52. Which structure is not concerned with breathing in frog?



A. Skin

B. Lungs

C. Diaphragm

D. Buccal cavity

**Answer:**



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**53.** Heat of fron differs from that of man by the presence of

A. Aorta

B. Mitral valve

C. Sinus venosus

D. Auricles

**Answer:**



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**54.** Match the following column I with column II and choose the correct option

<b>Column I</b>	<b>Column II</b>
A. Earthworm	- (i) Trachea
B. Cockroach	- (ii) Diaphragm
C. Frog	- (iii) Clitellum
D. Man	- (iv) Cloaca

A. A-(i),B-(ii),C-(iv),D-(iii)

B. A-(iii),B-(i),C-(iv),D-(ii)

C. A-(iii),B-(i),C-(ii),D-(iv)

D. A-(i),B-(iii),C-(iv),D-(ii)

**Answer:**



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**55. Frog is**

A. Ureotelic

B. Uricotelic

C. Ammonotelic

D. None of the above

**Answer:**



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**56.** A frog has

- A. Eyes but not lids
- B. Jaws but not teeth
- C. Hands but no fingers
- D. Ears but no pinnae

**Answer:**



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57. Bidder's canal in frog is found in

- A. Liver
- B. testis
- C. Ovary
- D. Kidney

**Answer:**



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58. A liquid manure or plant tonic obtained from earthworm is\_\_\_



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**59.** Vasa caricosa is the previous name of

- A. Trachea
- B. Ovaries
- C. Malpighian tubules
- D. Ommatidia

**Answer:**



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**60.** Who coined the name Malpighian tubules?

A. Malpighi

B. Meckel

C. Golgi

D. Frank

**Answer:**



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**61.** The viviparous cockroach is

A. *Periplaneta americana*

B. *Blattella germanica*

C. *Blatta orientalis*

D. *Diploptera punctata*

**Answer:**



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62. \_\_\_\_\_ is the zoological name of Indian green frog



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63. \_\_\_\_\_ is the largest order of amphibilans



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**64.** Which of the following is not concerned with the sexual character of frog?

A. Vocal sacs

B. Nuptical pad

C. Embryo

D. Croaking sound

**Answer:**



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**65.** Which one of the following is the common chamber into which the intestinal, urinary and genital tracts

open?

A. Anus

B. Cloaca

C. Rectum

D. Urinary bladder

**Answer:**



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**66.** In frog, the finger like folds at intestine called

A. Pyloric constriction

B. Villi

C. Sphincter

D. Microvilli

**Answer:**



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**67.** How do frogs respire during Aestivation and hibernation ?

A. Pulmonary respiration

B. Buccal respiration

C. Cutaneous respiration

D. Gill respiration

**Answer:**



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**68.** Match the following column I with column II and choose the correct option

<b>Column I</b>	<b>Column II</b>
A. Labrum	- i) Tongue
B. Mandible	- ii) Lower lip
C. Hypopharynx	- iii) Upper lip
D. Labium	- iv) Jaw

A. A-iv,B-iii,C-ii,D-i

B. A-iii,B-iv,C-I,D-ii

C. A-iii,B-I,C-iv,D-ii

D. A-ii,B-iv,C-iii,D-ii

**Answer:**



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**69.** Which one of the following is incorrect regarding the walkings legs of cockroaches?

A. Coxa

B. Tarsus

C. Tegmina

D. Trochanter

**Answer:**



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70. Select the correct order

- A. Spiracles → Tracheoles → Trachea → Tissues
- B. Trachea → Tracheoles → Spiracles → Tissues
- C. Tissues → Treaches → Tracheoles → Spiracles
- D. Spiracles → Trachea → Tracheoles → Tissues

**Answer:**



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71. The number of fingers in the hind limb of frog *Rana hexadactyla*

A. 4

B. 5

C. 6

D. 7

**Answer:**



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72. Which of the following is mainly used in capturing the prey in frog?

A. Lips

B. Teeth

C. Tongue

D. Hand

**Answer:**



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**73.** Chordae tendinae in heart of frog is found in

A. Ventricle

B. Left auricle

C. Right auricle



D. Sinus venosus

**Answer:**



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**74. Amphibian heart is**

- A. One chambered
- B. Two chambered
- C. Three chambered
- D. Four chambered

**Answer:**



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75. In frog pyloric sphincter is located between

- A. Pharynx and Oesophagus
- B. Oesophagus and stomach
- C. Ileum and Rectum
- D. Stomach and Duodenum

**Answer:**



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76. The urinary bladder of frog opens into

A. Ureter

B. Rectum

C. Anus

D. Cloaca

**Answer:**



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**77.** Which of the following is common in Earthworm and cockroaches?

A. Nephridia

B. Ventral nerve cord

C. Closed blood vascular system

D. Cocoon

**Answer:**



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**78.** When the frog is at rest, the hind limbs are kept folded in the form of letter

A. X

B. A

C. Z

D. L

**Answer:**



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**79.** Vocal sac are present in

- A. Male cockroach
- B. Female cockroach
- C. Male frog
- D. Female frog

**Answer:**



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**80.** In frog, Vomerine teeth found in

- A. Upper jaw
- B. Tongue
- C. Lower jaw
- D. Buccal cavity

**Answer:**



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**81.** In earthworm gizzard is found in

- A. 5<sup>th</sup> segment

B. 6<sup>th</sup> segment

C. 7<sup>th</sup> segment

D. 8<sup>th</sup> segment

**Answer:**



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**82.** Earthworm is placed in the class

A. Polychaeta

B. Oligochaeta

C. Hirudinea

D. Crustacea

**Answer:**



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**83.** Body setae occur in earthworm in all segments except

A. Clitellar region

B. Anal segment

C. Peristomium

D. All the above

**Answer:**



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**84.** Locomotion in earthworm is directly facilitated by

- A. Mucus secreted by epidermis
- B. Segmentation of the body
- C. Rhythmic contraction of segment
- D. Setae and contractiong of segments

**Answer:**



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**85.** In earthworm fertilization occurs in

- A. Oviduct

B. Spermatheca

C. Cocoon

D. Clitellum

**Answer:**



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**86.** Earthworm has

A. Two eyes

B. No eyes

C. Many eyes

D. One eye

**Answer:**



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**87.** Excretory organs of earthworm are

- A. Trachea
- B. Flame cells
- C. Nephridia
- D. Malpighian tubule

**Answer:**



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**88.** In earthworm, mouth is situated on

- A. Prostomium
- B. Peristomium
- C. Pygedium
- D. Stomium

**Answer:**



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**89.** \_\_\_ is a liquid obtained from earthworms

- A. Vermiwash

B. Vermiliquid

C. Vermicompost

D. Wormbin

**Answer:**



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90. \_\_\_\_ kind of vision is found in cockroaches

A. Simple vision

B. Mosaic vision

C. Blind vision

D. Double vision

**Answer:**



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**91.** Which one of the followingh is wrong about cockroach?

A. Monoecious

B. Dioecisous

C. Oviparous

D. Nocturnal

**Answer:**



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**92.** Type of mouth parts present in cockroach

- A. Sucking type
- B. Biting type
- C. Biting and chewing type
- D. Chewing type

**Answer:**



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**93.** In cockroach which of the following muscles is used for blood circulation

A. Ciliary muscle

B. Alary muscle

C. Skeletal muscle

D. Cardiac muscle

**Answer:**



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**94.** Match the following column I with column II and choose the correct option



**Column I****Column II**

- |                     |                                 |
|---------------------|---------------------------------|
| A. Forelimb of frog | - i) Vocal sacs                 |
| B. Hindlimb of frog | - ii) Ear drum                  |
| C. Tympanic         | - iii) Four digits<br>membranes |
| D. Male frog        | - iv) Z' shape                  |

A. A-iv,B-iii,C-I,D-ii

B. A-iii,B-i,C-ii,D-iv

C. A-iii,B-iv,C-ii,D-i

D. A-iv,B-iii,C-ii,D-i

**Answer:**



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95. \_\_\_\_\_ pairs of cranial nerves are found in frog

A. 8 pairs

B. 10 pairs

C. 7 pairs

D. 11 pairs

**Answer:**



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**96.** In cockroach, oxygen is transported by

A. Plasma

B. Histamine

C. Trachea

D. Haemoglobin

**Answer:**



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**97. Differentiate between male and female frog.**

- A. Anal cerci
- B. Paired antennae
- C. Gonapophysis
- D. Anal styles

**Answer:**



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98. The heart of cockroach has \_\_ chambers.

- A. 6 chambered
- B. 8 chambered
- C. 9 chambered
- D. 13 chmabered

**Answer:**



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99. Select wrong matching

A. Thigmo receptors-Antennae

B. Olfactory receptors-Cerci

C. Gustatory receptors-Maxillary palps

D. Thermoreceptors-Legs

**Answer:**



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**100.** The young cockroach are called .....



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**101.** Toads are included in the family

A. Bufonidae

B. Ranidae

C. Lumbricidae

D. Blattidae

**Answer:**



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**102.** In frog, the finger like folds at intestine called

A. Caecae

B. Valves

C. Villi

D. Teeth

**Answer:**



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**103.** Autonomic nervous system includes

A. Sympathetic nervous system

B. Cranial nerves

C. Spinal nerves

D. Brain

**Answer:**



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**104.** Select the odd one

- A. Lateral ventricle
- B. Right ventricle
- C. Optic ventricle
- D. Olfactory ventricle

**Answer:**



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**105.** The hind brain of frog is called-



A. Rhombencephalon

B. Mesencephalon

C. Telencephalon

D. Prosencephalon

**Answer:**



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**106.** In frog, the partially digested food is called \_\_\_\_



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**107.** The young one of earthworm is \_\_\_\_\_



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**108.** Identify the female reproductive organ of cockroach

- A. Mushroom gland
- B. Phallic gland
- C. Colleterial gland
- D. seminal vesciles

**Answer:**



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**109.** Which is present on the dorsal side of brain?

A. Pituitary body

B. Pineal body

C. Optic chiasma

D. Olfactory lobe

**Answer:**



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**110.** Foramen of monro connects

A. Optic ventricle and third ventricle

B. Third ventricle and fourth ventricle

C. Lateral ventricle and third ventricle

D. Olfactory ventricle and lateral ventricle.

**Answer:**



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