

BIOLOGY

BOOKS - SARAS PUBLICATION

ORGAN AND ORGAN SYSTEMS IN ANIMALS

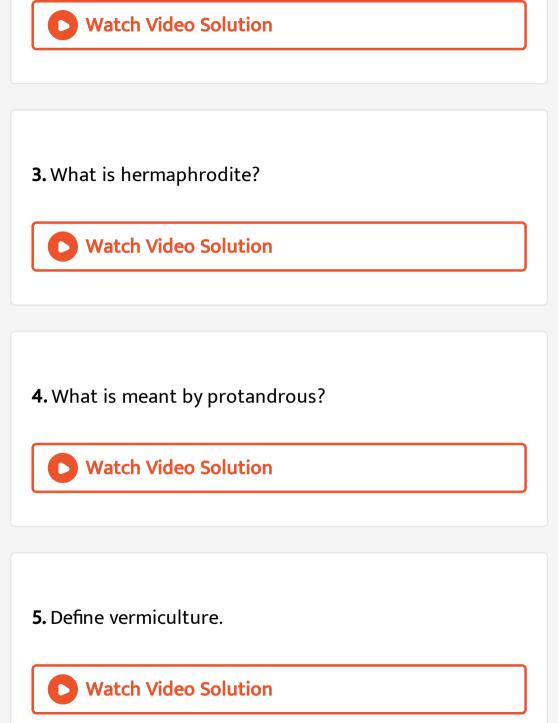


1. What does morphology mean?



Watch Video Solution

2. What does anatomy mean?



6. Define vermicomposting.
Watch Video Solution
7. Define vermiwash.
Watch Video Solution
8. What is wormery?
Watch Video Solution
9. What is gonapohphysis?

Watch video Solution
10. What is gynovalvular plates?
10. What is gynovalvular plates:
Wetch Video Colution
Watch Video Solution
11. What is anal cerci?
Watch Video Solution
12. What is metamorphosis in frog?
Watch Video Solution

VIII OO

13. Differentiate between peristomium and prostomium in earthworm.

Watch Video Solution

14. Differentiate between tergum and a sternum.



15. Differentiate the male and female cockroaches.



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



Watch Video Solution

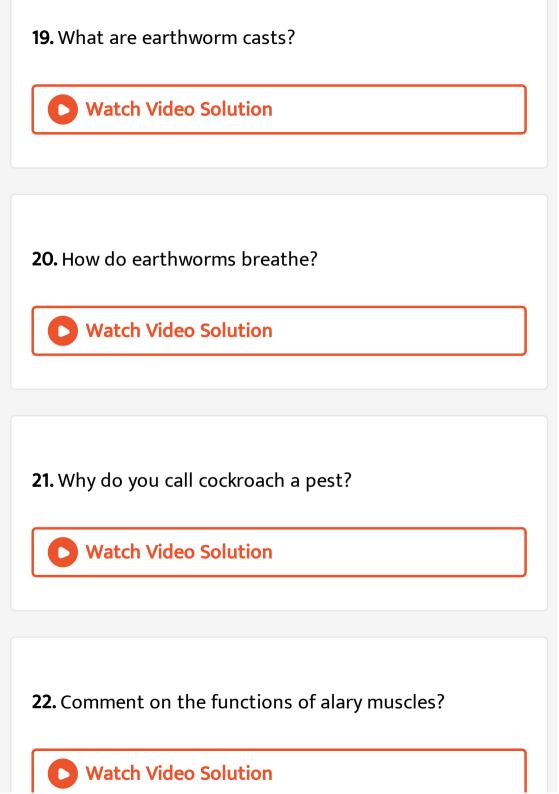
17. Differentiate between a frog and Toad.



Watch Video Solution

18. What characteristics are used to identify the earthworms?





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



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



25. Describe the types of respiration seen in frog.



26. Differentiate between peristomium and prostomium in earthworm.



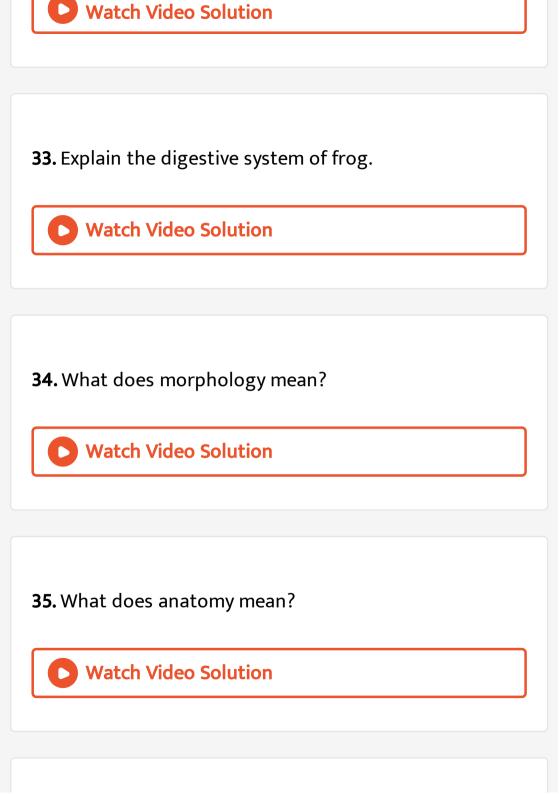
27. Differentiate between tergum and a sternum.



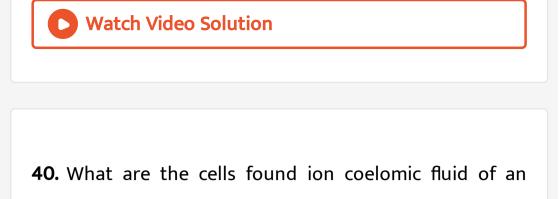
28. Give the location of clitellum and spermathecal openings in Lampito mauritii.



29. Head of cockroach is called Hypognathous. Why?
Watch Video Solution
30. How respiration takes place in cockroach?
Watch Video Solution
31. What are the components of blood in frog?
Watch Video Solution
32. Explain the reproductive system of frog



36. Name the common Indian earthworm. **Watch Video Solution** 37. What is clitellum in earthworm? **Watch Video Solution** 38. What are the layers of the body wall of an earthworm? **Watch Video Solution 39.** What is hydrostatic skeleton?



earthworm?

Watch Video Solution

41. What is hermaphrodite?

Watch Video Solution

42. What is meant by protandrous?

43. What is Vermitech?

Watch Video Solution

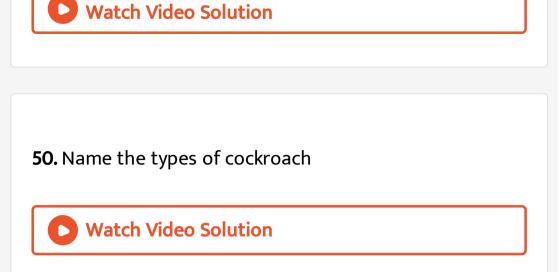
44. Define vermiculture.



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



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?



52. What are the components of central nervous system?

51. What is nictitating membrane?

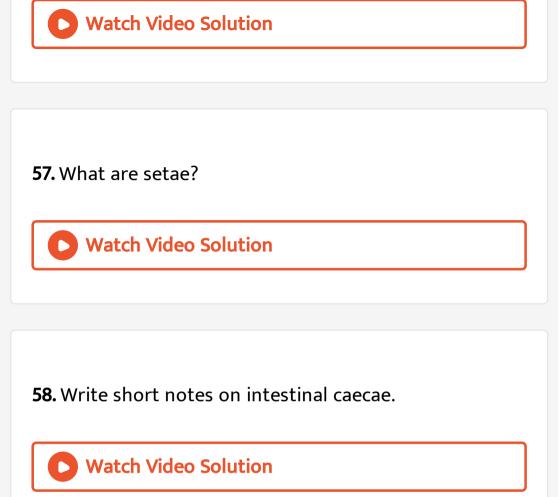
Watch Video Solution

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?

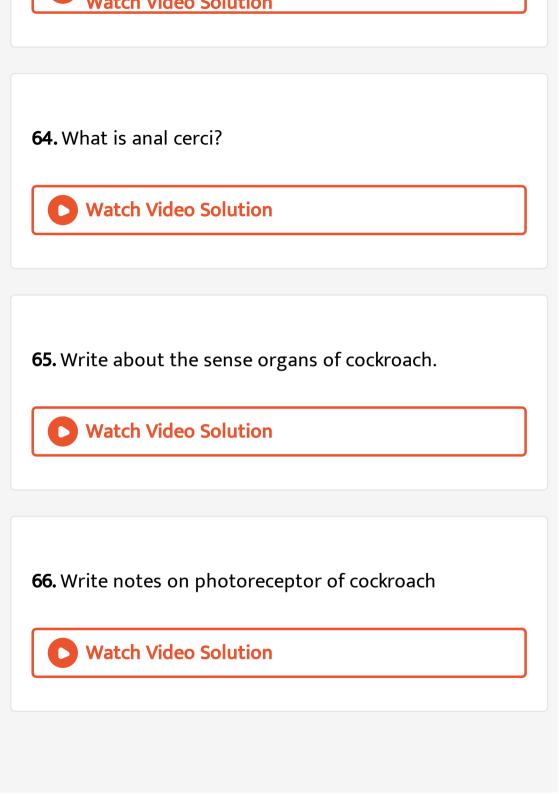


56. What are the different groups of earthworms?



59. Write about the sense organs of eathworm.

60. Write shot notes on cocoon of earthworm.
Watch Video Solution
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.
O Watch Video Calution



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



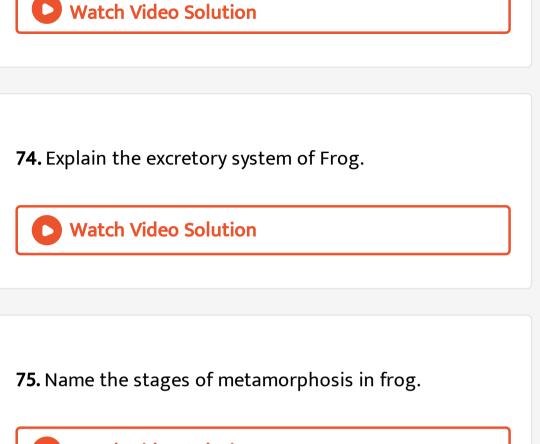
68. Write a short note on ootheca.



69. Write short notes on fore limbs of frog.



70. Differentiate between Frog and Toad.
Watch Video Solution
71. Write short notes on hind limbs of frog
Watch Video Solution
Water Video Solderon
72. Write about the tongue of frog.
Watch Video Solution
73. Write notes on blood of frog.





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



77. Describe the internal structure of Heart in Frog.
Watch Video Solution
78. Explain the morphology of limpito maruritii.
Watch Video Solution
79. Explain the digestive system of earthworm.
Watch Video Solution

80. Mention briefly about the circulatory system of earthworm



Watch Video Solution

81. Explain the nervous system of earthworm.



Watch Video Solution

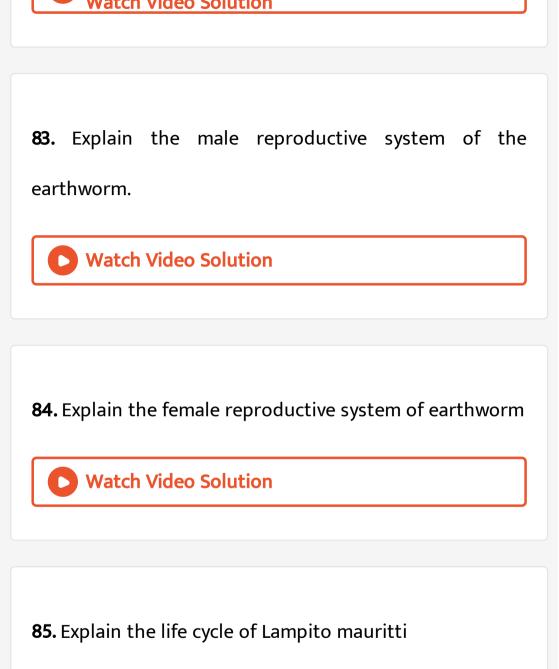
82. Answer the following

(i) What is the function of nephridia?

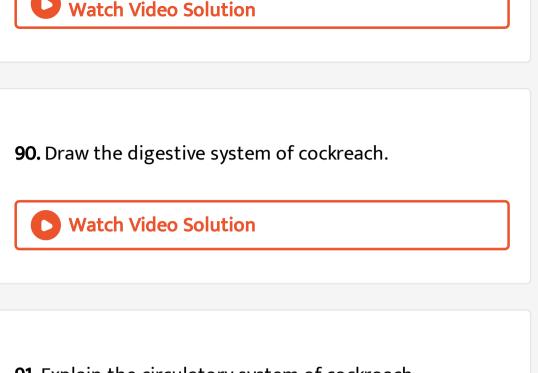
(ii) How many types of nephridia are found in earthworm based on their location ?



___ \\\.



86. What are the characteristics of cockroach?
Watch Video Solution
87. Write notes on the head of cockroach.
Watch Video Solution
88. Name the mouth parts of cockroach.
Watch Video Solution
89. Describe the thorax region of cockroach

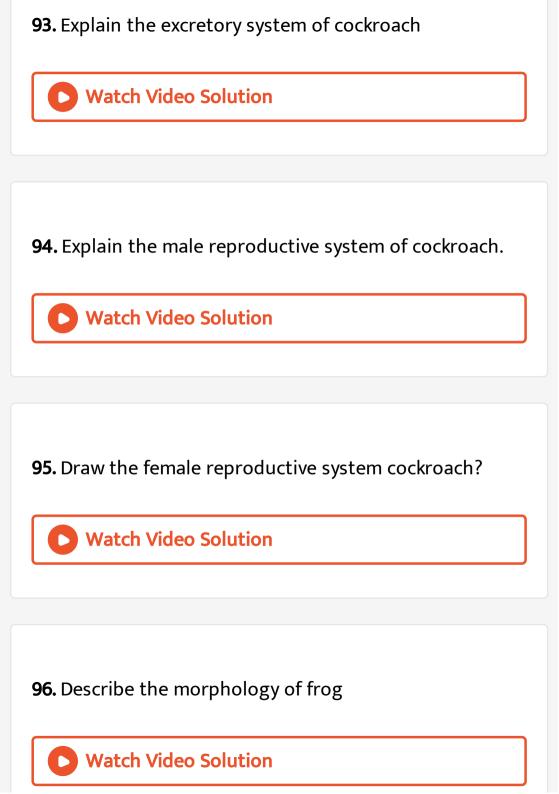


91. Explain the circulatory system of cockroach.



92. Explain the nervous system of cockroach





97. Describe the structure of digestive system of frog



Watch Video Solution

98. Explain the process of digestion in frog



Watch Video Solution

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



100. Write notes on blood vessels of frog.

101. Write notes on Brain of frog

Watch Video Solution



Exercise

1. Sexually, earthworms are

A. Sexes are separate

B. Hermaphroditic but not self fertilizing

- C. Hermaphroditic and self fertilizing
- D. Pathogenic

Answer:



- 2. The type of vision in Cockroach is
 - A. Three dimensional
 - B. Two dimensional
 - C. Mosaic
 - D. Cockroach do not have vision

Answer:



Watch Video Solution

- **3.** Kidney of frog is
 - A. Archinephros
 - B. Mesenephros
 - C. Pronephros
 - D. Metanephros

Answer:



4. Bidder's canal in frog is found in
A. Liver
B. Testis
C. Ovary
D. Kidney
Answer:
Watch Video Solution
Watch Video Solution

A.

 $S\pi rac \leq s
ightarrow Tracheo \leq s
ightarrow Tracheo
ightarrow Tissues$

В.

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

C.

 $Tissues
ightarrow Trachea
ightarrow Tracheo \leqslant s
ightarrow S\pi rac \leqslant s$

D.

 $S\pi rac \leq s
ightarrow Tracheo \leq s
ightarrow Tissues$

Answer:



6. Differentiate between tergum and a sternum.
Watch Video Solution
7. Describe the types of respiration seen in frog.
Watch Video Solution
8. What is gynovalvular plates?
Watch Video Solution
9. Define vermiculture.



10. What characteristics are used to identify the earthworms?



11. What is gonapophysis?



12. Head of cockroach is called Hypognathous. Why?



13. Differentiate between peristomium and prostomium in earthworm.

Watch Video Solution

14. What is anal cerci?



15. Describe the heart of frog.



16. What are earthworm casts? Watch Video Solution	
17. Explain the male reproductive system of frog.	
Watch Video Solution	
18. Explain the female reproductive system of frog.	
Watch Video Solution	
19. Name the common Indian earthworm.	

20. Explain the life cycle of Lampito mauritti



Watch Video Solution

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



Watch Video Solution

- 22. Sexually, earthworms are
 - A. Sexes are separate
 - B. Hermaphoroditic but not self-fertilizing
 - C. Hermaphroditic and self-fertilizing
 - D. Pathenogenic

Answer:



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



Watch Video Solution

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



- **25.** The location and numbers of malpighian tubules in Periplaneta.
 - A. At the junction midgut and hindgut, about 150.
 - B. At the junction of fporegut and midgut, about 150
 - C. Surrrounding gizzar, eight

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

Answer:



Watch Video Solution

26. The type of vision in Cockroach is

A. Three dimesntional

B. Two dimensional

C. Mosaic

D. Cockroach do not have vision

Answer:



vateri video Solution

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:



28. Which of the following have an open circulatory
system?
A. Frog
B. Earthworm
C. Pigeon
8.4
D. Cockroach
Answer:
Watch Video Solution
<u> </u>

29. Buccopharyngeal respiration in frog:

- A. Is increased when nostirls are closed
- B. Stopes when there is pulmonary respiration
- C. Is increased when it in catching fly
- D. Stopes when mount is opened



- **30.** Kidney of frog is
 - A. Archinephros
 - B. Pronephros
 - C. Mesonephros

D. Metanephros

Answer:



Watch Video Solution

- 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:



vateri video Solution

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:



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

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

- B. Antennae, compound eye, maxilary palps
- C. Antennae, ommatidia, maxillary palps, sternum
- D. Antennae, eyes, maxillary palps,and tarsus of walking legs

Answer:



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

- A. Coelomic fluid
- B. Blood
- C. Gut peristalsis
- D. Setae

Answer:



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

- 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)



- **36.** Select the correct option with respect to cockroaches
 - A. The fore wings are tegmina which are used in flight.
 - B. Malphighian 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



Watch Video Solution

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

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

Answer:



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:



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:



Watch Video Solution

40. Exoskeleton of peeriplaneta is protected due to-

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

A. Six

B. Four

C. Two

D. Eight

Answer:



42. Each walking leg of Periplaneta is made up of
segments
A. Four
B. Five
C. Six
D. Nine
Answer:
Watch Video Solution
43. How many segments are present in the abdomen of
the cockroach?

B. Ten
C. Seven
D. Nine
Answer:
Watch Video Solution
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

A. Eight

C. Anal styles are absent in females

Answer:



Watch Video Solution

D. They are ureptlic

- 45. Earthworms is brown due to presence of
 - A. Blood
 - B. Haemoglobin
 - C. Haemocyanin
 - D. Porphyrin



Watch Video Solution

- **46.** Salivary gland in eathworm is found in
 - A. Pharyngeal wall
 - B. Ventral wall of buccal cavity
 - C. Dorsal wall of buccal cavity
 - D. None of the above

Answer:



A. Malpighian tubules
B. Septal nephridia
C. Nephrons
D. Integumentary nephridia
Answer: Watch Video Solution
48. Segment of earthworm bearing mouth is
A. Prostomium

47. Idenfity the excretory organs of cockroaches

B. Peristomium
C. Clitellum
D. Pygdium
Answer:
Watch Video Solution
49. Setae of earthworm is made up of
Watch Video Solution
50. Excretory organs of an earthowrm are
Watch Video Solution

51. Chloragogen cells are involved in

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

Answer:



Watch Video Solution

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

A. Skin
B. Lungs
C. Diaphragm
D. Buccal cavity
Answer:
Watch Video Solution
53. Heat of fron differs from that of man by the presence
of
A. Aorta
B. Mitral valve

- C. Sinus venosus
- D. Auricles



Watch Video Solution

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

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)



Watch Video Solution

55. Frog is

- A. Ureotelic
- B. Uricotelic
- C. Ammonotelic
- D. None of the above



Watch Video Solution

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:



57. Bidder's canal in frog is found in

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

Answer:



Watch Video Solution

58. A liquid manure or plant tonic obtained from earthworm is___



59. Vasa caricosa is the previous name of	
A. Trachea	

- **B.** Ovaries
- C. Malpighian tubules
- D. Ommatidia



Watch Video Solution

60. Who coined the name Malpighian tubules?

A. Malpighi B. Meckel C. Golgi D. Frank **Answer: Watch Video Solution 61.** The viviparous cockroach is A. Periplaneta americana B. Blattella germanica C. Blatta orientalis

D. Diploptera punctata
A
Answer:
Watch Video Solution
62. is the zoological name of Indian green frog
Watch Video Solution
63. is the largest order of amphibilans
Watch Video Solution

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:



Watch Video Solution

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: Watch Video Solution
66. In frog, the finger like folds at intestine called
A. Pyloric constriction B. Villi

- C. Sphincter D. Microvilli **Answer: Watch Video Solution** 67. How do frogs respire during Aestivation and hibernation?
 - A. Pulmonary respiration
 - B. Buccal respiration
 - C. Cutaneous respiration
 - D. Gill respriation



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

Column II
- i) Tongue
 ii) Lower lip
 iii) Upper lip
- 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:



Watch Video Solution

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

- A. Coxa
- B. Tarsus
- C. Tegmina
- D. Trochanter

Answer:

70. Select the correct order

- A. Spiracles $\;
 ightarrow\;$ Tracheoles $\;
 ightarrow\;$ Trachea $\;
 ightarrow\;$ Tissues
- B. Trachea ightarrow Tracheoles ightarrow Spiracles ightarrow Tissues
- C. Tissues $\;
 ightarrow\;$ Treaches $\;
 ightarrow\;$ Tracheoles $\;
 ightarrow\;$ Spiracles
- D. Spiracles ightarrow Trachea ightarrow Tracheoles ightarrow Tissues

Answer:



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

- A. 4
- B. 5
- C. 6
- D. 7

Answer:



Watch Video Solution

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

A. Lips	
B. Teeth	
C. Tongue	
D. Hand	
Answer:	
Watch Video Solution	
73. Chordae tendinae in heart of frog is found in	
73. Chordae tendinae in heart of frog is found in A. Ventricle	
A. Ventricle	

D. Sinus venosus

Answer:



Watch Video Solution

74. Amphibian heart is

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

Answer:



<u>waten video Solution</u>

75. In frog pyloric sphinter is located between

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

Answer:



Watch Video Solution

76. The urinary bladder of frog opens into

A. Ureter
B. Rectum
C. Anus
D. Cloaca
Answer:
Watch Video Solution
77. Which of the folloiwng is common in Earthworm and
cockroaches?
A. Nepthridia
B. Ventral nerve cord

C. Closed blood vascular system
D. Cocoon
Answer:
Watch Video Solution
78. When the frog is at rest, the hing limbs are kept
folded in the form of letter
A. X
B. A
C. Z
D. L



Watch Video Solution

- **79.** Vocal sac are present in
 - A. Male cockroach
 - B. Female cockroach
 - C. Male frog
 - D. Female frog

Answer:



80. In frog, Vomerine teeth found in A. Upper jaw B. Tongue C. Lower jaw D. Buccal cavity **Answer:**



Watch Video Solution

81. In earthworm gizzard is found in

A. 5^{th} segment

- ${\rm B.}~6^{th}~{\rm segment}$
- C. 7^{th} segment
- D. 8^{th} segment



- 82. Earthworm is placed in the class
 - A. Polychaeta
 - B. Oligochaeta
 - C. Hirudinea
 - D. Crustacea



Watch Video Solution

- 83. Body satae occur in earthworm in all segments except
 - A. Clitellar region
 - B. Anal segment
 - C. Peristomium
 - D. All the above

Answer:



84. Locomotion in earthworm is directly facilitated by
A. Mucus secreted by epidermis

- B. Segmentation of the body
- C. Rhythmic contraction of segement
- D. Setae and contractiong of segments



Watch Video Solution

85. In earthworm fertilization occurs in

A. Oviduct

- B. Spermatheca
- C. Cocoon
- D. Clitellum



Watch Video Solution

86. Earthworm has

- A. Two eyes
- B. No eyes
- C. Many eyes
- D. One eye



Watch Video Solution

- 87. Excretory organs of earthworm are
 - A. Trachea
 - B. Flame cells
 - C. Nephridia
 - D. Malpighian tubule

Answer:



A. Prostomium
B. Peristomium
C. Pygedium
D. Stomium
Answer:
Watch Video Solution
89. is a liquid obtained from earthworms
A. Vermiwash

88. In earthworm, mouth is situated on

B. Vemiliquid C. Vermicompost D. Wormbin

Answer:



- **90.** kind of vision is found in cockroaches
 - A. Simple vision
 - B. Mosaic vision
 - C. Blind vision
 - D. Double vision



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

- A. Monoecious
- **B.** Dioecisous
- C. Oviparous
- D. Nocturnal

Answer:



92. Type of mouth parts present in cockroach

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

Answer:



Watch Video Solution

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

A. Ciliary muscle B. Alary muscle C. Skeletal muscle D. Cardiac muscle **Answer: Watch Video Solution** 94. Match the following column I with column II and choose the correct option

Column I

A. Forelimb of frog - i) Vocal sacs
B. Hindlimb of frog - ii) Ear drum
C. Tympanic - iii) Four digits
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:



Watch Video Solution

95. _____ pairs of cranial nerves are found in frog

A. 8 pairs B. 10 pairs C. 7 pairs D. 11 pairs **Answer: Watch Video Solution** 96. In cockroach, oxygen is tranporeted by A. Plasma B. Histamine C. Trachea

D. Haemoglobin

Answer:



Watch Video Solution

97. Differentiate between male and female frog.

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

Answer:



Water Video Solution

98. The heart of cockroach has __chambers.

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

Answer:



Watch Video Solution

99. Select wrong matching

A. Thigmo receptors-Antennae
B. Olfactory receptors-Cerci
C. Gustatory receptors-Maxillary palps
D. Thermoreceptors-Legs
A
Answer:
Watch Video Solution
100. The young cockroach are called
Watch Video Solution
101. Toads are included in the family

A. Bufonidae
B. Ranidae
C. Lumbricidae
D. Blattidae
Answer:
Watch Video Solution
102. In frog, the finger like folds at intestine called
102. In frog, the finger like folds at intestine called A. Caecae
A. Caecae

D. Teeth

Answer:



Watch Video Solution

103. Autonomic nervous system includes

- A. Sympathetic nervous system
- B. Cranial nerves
- C. Spinal nerves
- D. Brain

Answer:



valui viuco solution

104. Select the odd one

A. Lateral ventricle

B. Right ventricle

C. Optic ventricle

D. Olfactory ventricle

Answer:



Watch Video Solution

105. The hind brain of frog is called-

A. Rhombencephalon
B. Mesencephalon
C. Telencephalon
D. Prosencephalon
Answer:
Watch Video Solution
106. In frog, the partially digested food is called
Watch Video Solution
107. The young one of earthworm is

108. Identify the female reproductive organ of cockroach

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

Answer:



- A. Pituitary body
- B. Pineal body
- C. Optic chiasma
- D. Olfactory lobe



Watch Video Solution

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:

