



BIOLOGY

BOOKS - SARAS PUBLICATION

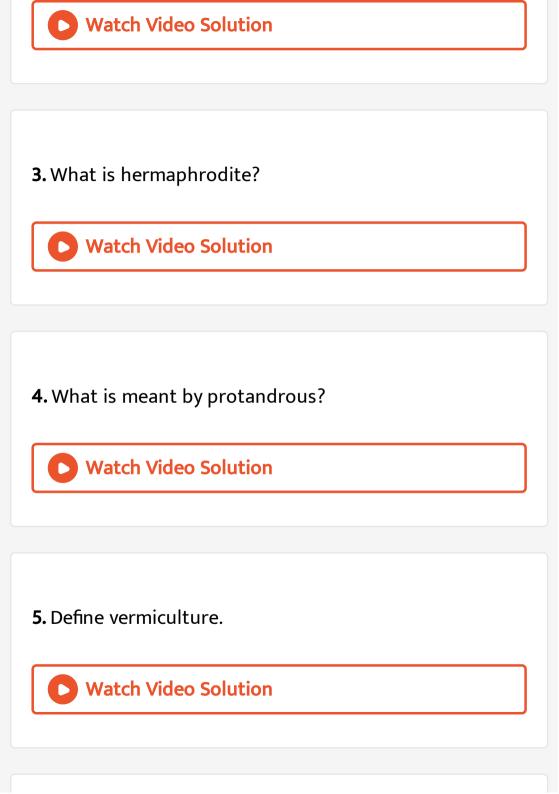
Organ And Organ Systems In Animals

Example

1. What does morphology mean?

Watch Video Solution

2. What does anatomy mean?



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6.	Define	vermicomp	osting.
		· • • • • • • • • • • • • • • • • • • •	

Vatch Video Solution
7. Define vermiwash. ••••••••••••••••••••••••••••••••••••
8. What is wormery?
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9. What is gonapohphysis?



10. What is gynovalvular plates?

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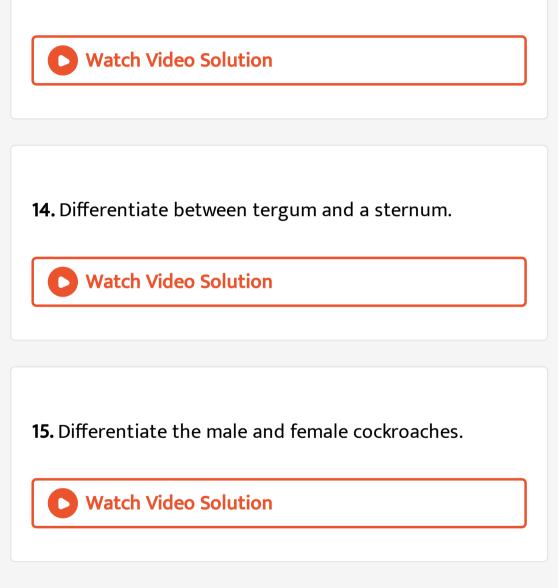
11. What is anal cerci?

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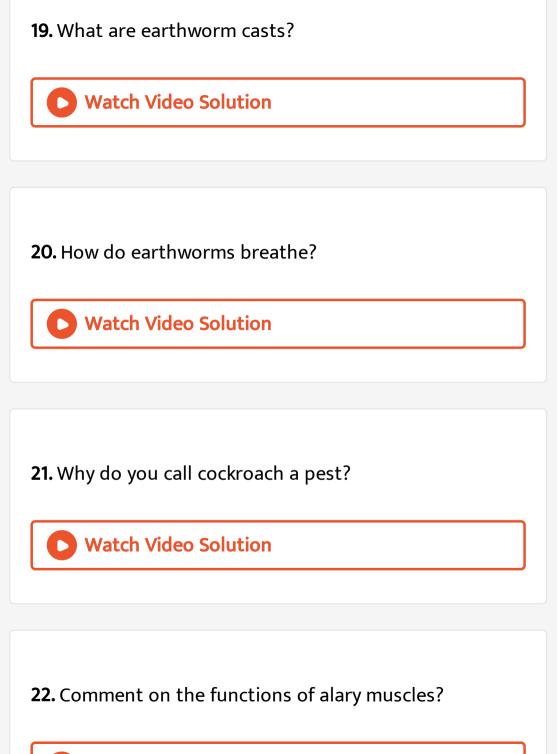
12. What is metamorphosis in frog?

13. Differentiate between peristomium and prostomium

in earthworm.



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? Watch Video Solution



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

Watch Video Solution

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

Watch Video Solution

25. Describe the types of respiration seen in frog.

26. Differentiate between peristomium and prostomium

in earthworm.

Watch Video Solution

27. Differentiate between tergum and a sternum.

Watch Video Solution

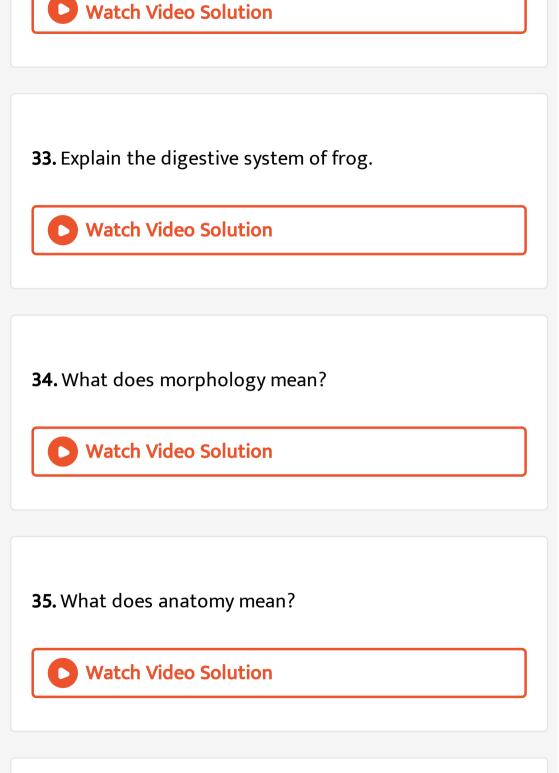
28. Give the location of clitellum and spermathecal openings in Lampito mauritii.

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

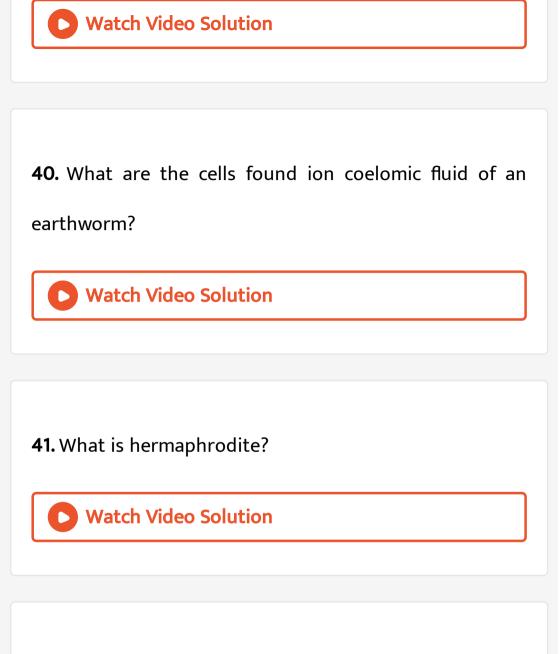




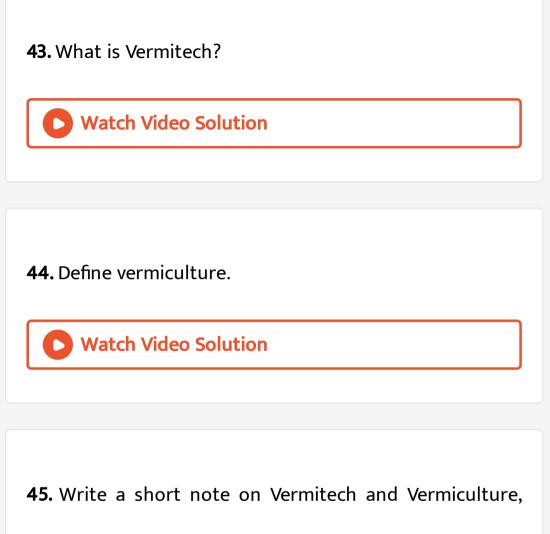
36. Name the common Indian earthworm.

Watch Video Solution
37. What is clitellum in earthworm?
Watch Video Solution
38. What are the layers of the body wall of an earthworm?
Vatch Video Solution

39. What is hydrostatic skeleton?



42. What is meant by protandrous?



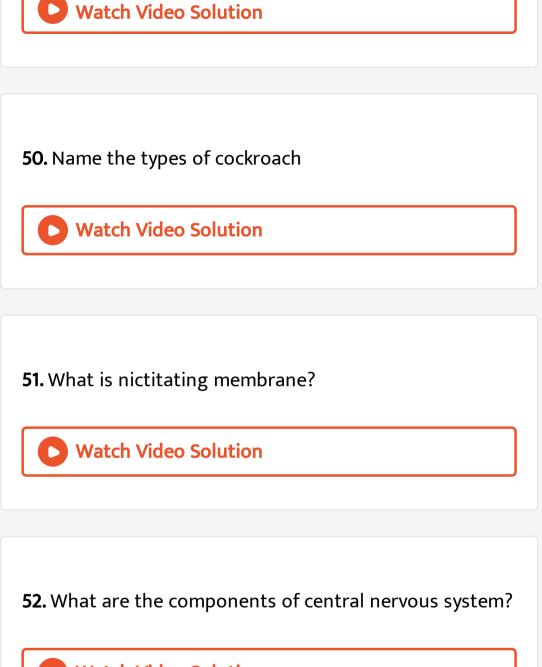
Vermicomposting, Vermiwash.



46. Define vermiwash.

Watch Video Solution
47. What is wormery?
Watch Video Solution
48. What is gonapophysis?
Watch Video Solution

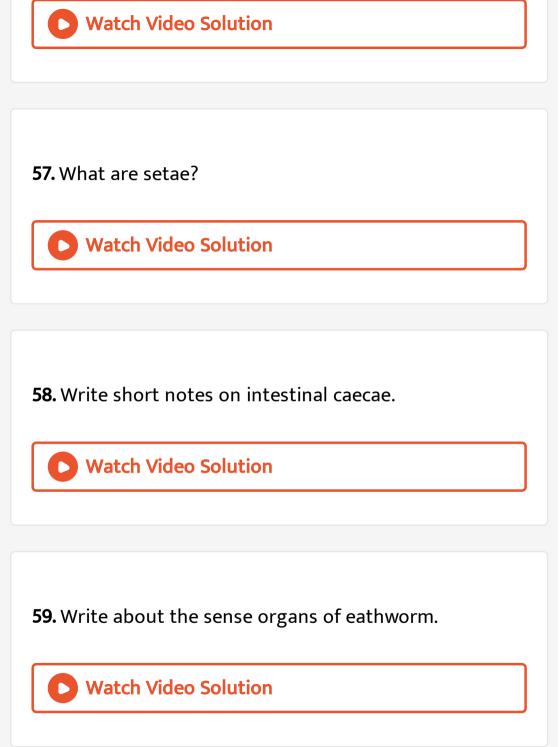
49. What is gynovalvular plates?



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?



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.



64. What is anal cerci?

Watch Video Solution

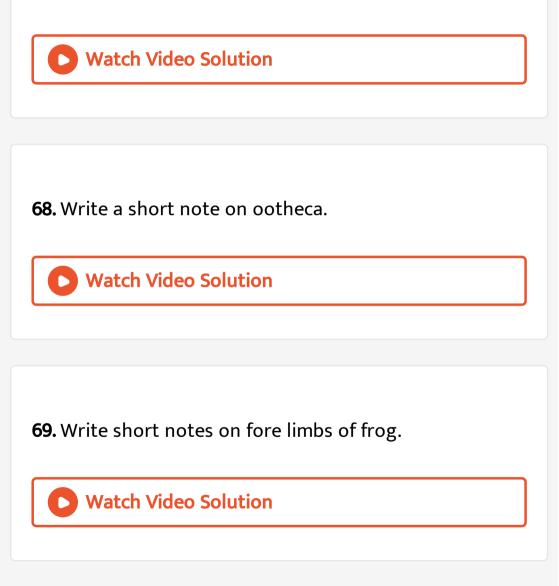
65. Write about the sense organs of cockroach.

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66. Write notes on photoreceptor of cockroach

67. What is the difference between compound eyes and

simple eyes?

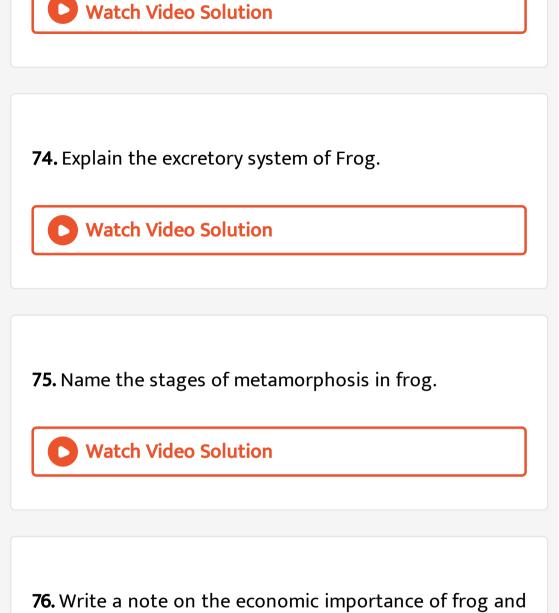


70. Differentiate between Frog and Toad.

Watch Video Solution
71. Write short notes on hind limbs of frog Watch Video Solution
72. Write about the tongue of frog. Watch Video Solution

73. Write notes on blood of frog.





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

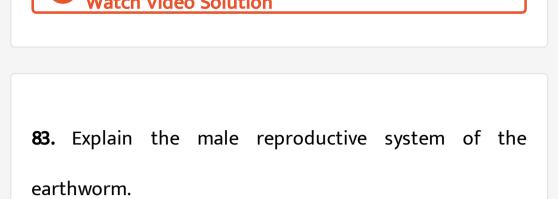
80. Mention briefly about the circulatory system of earthworm
Watch Video Solution
81. Explain the nervous system of earthworm.
Watch Video Solution

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 ?



Watch Video Solution

84. Explain the female reproductive system of earthworm

Watch Video Solution

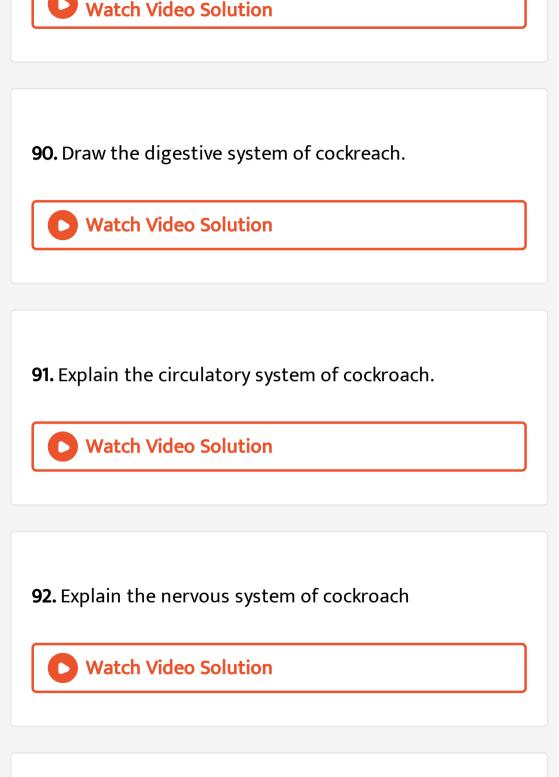
85. Explain the life cycle of Lampito mauritti

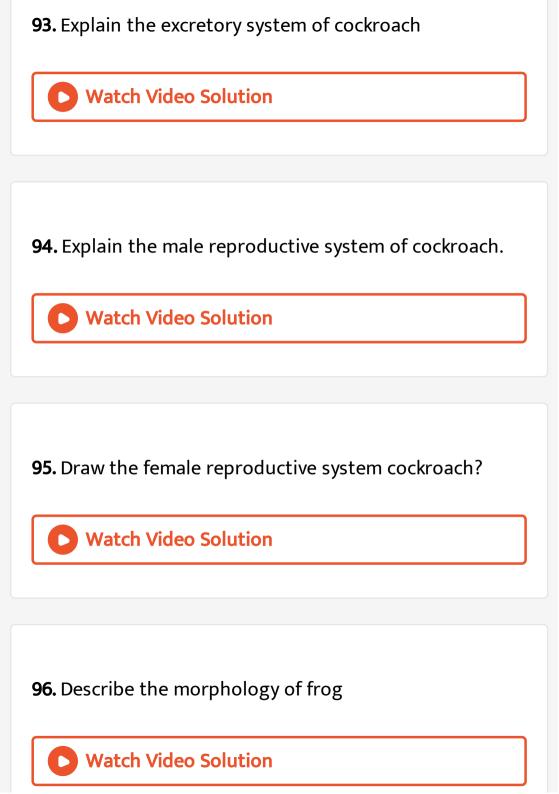
86. What are the characteristics of cockroach?

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87. Write notes on the head of cockroach.
Watch Video Solution
88. Name the mouth parts of cockroach.
Vatch Video Solution

89. Describe the thorax region 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.
Vatch Video Solution
101. Write notes on Brain of frog
Vatch 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:

Watch Video Solution

2. The type of vision in Cockroach is

A. Three dimensional

B. Two dimensional

C. Mosaic

D. Cockroach do not have vision

Answer:



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

5. Select the correct order

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

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

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

D.

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

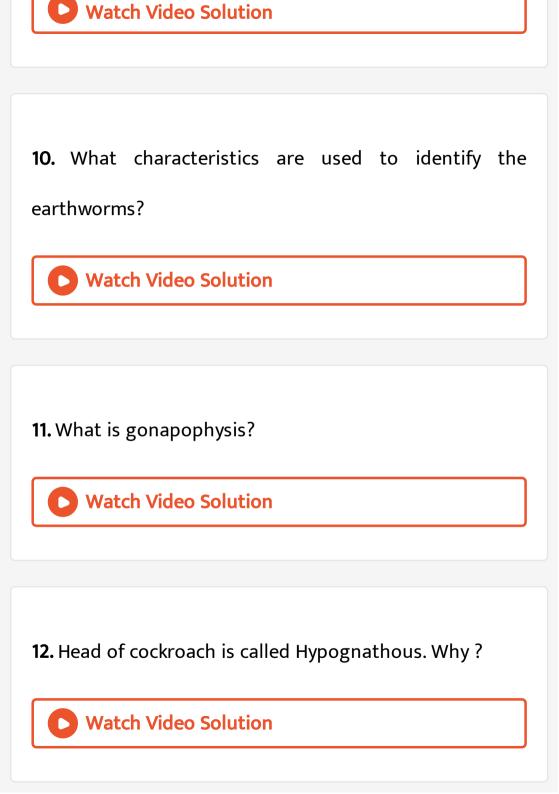
Answer:

6. Differentiate between tergum and a sternum.

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7. Describe the types of respiration seen in frog.
Watch Video Solution
8. What is gynovalvular plates?
Watch Video Solution

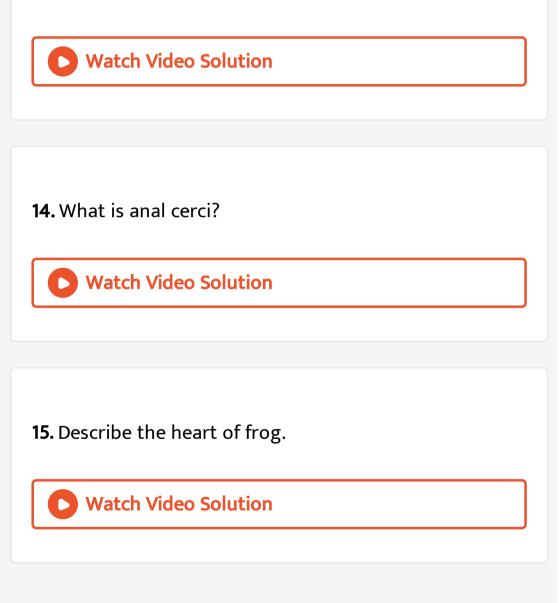
9. Define vermiculture.





13. Differentiate between peristomium and prostomium

in earthworm.

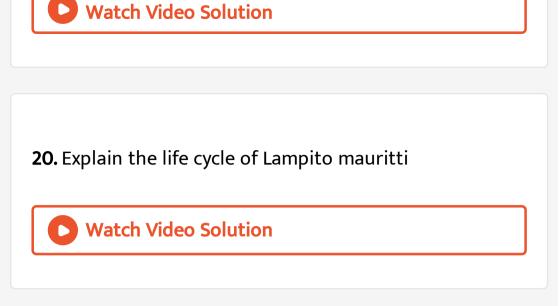


16. What are earthworm casts?

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.





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

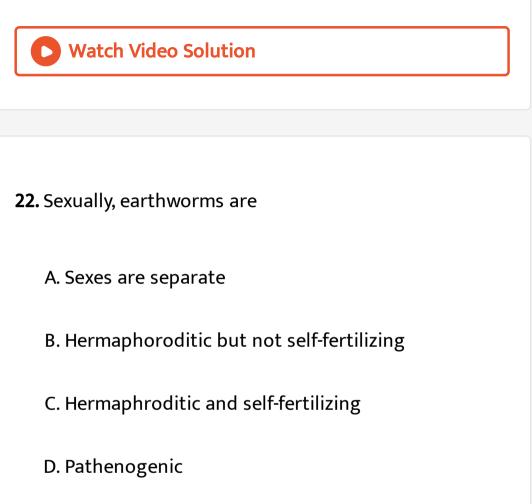
A. Segments 13-14

B. Segments 14-17

C. Segments 12-13

D. Segments 14-16

Answer:



Answer:

Watch Video Solution

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:

Watch Video Solution

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:



26. The type of vision in Cockroach is

A. Three dimesntional

B. Two dimensional

C. Mosaic

D. Cockroach do not have vision

27. How many abdominal segments are present in male

and female Cockroaches?

A. 10,10

B. 9,10

C. 8,10

D. 9,9



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

A. Frog

B. Earthworm

C. Pigeon

D. Cockroach

Answer:



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

Answer:

Watch Video Solution

30. Kidney of frog is

A. Archinephros

B. Pronephros

C. Mesonephros

D. Metanephros

Answer:



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

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.



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



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



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)

Answer:



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

Answer:



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

A. Cementing glue

B. Musclular tissue

C. Arthrodial membrane

D. Cartilage



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



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.

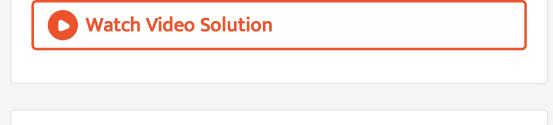
C. The size of male and female are equal.

D. The size of male is slightly bigger than female.

Answer:

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40. Exoskeleton of 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:

Watch Video Solution

42. Each walking leg of Periplaneta is made up of _____segments

A. Four

B. Five

C. Six

D. Nine

Answer:



43. How many segments are present in the abdomen of

the cockroach?

A. Eight

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

C. Anal styles are absent in females

D. They are ureptlic

Answer:

Watch Video Solution

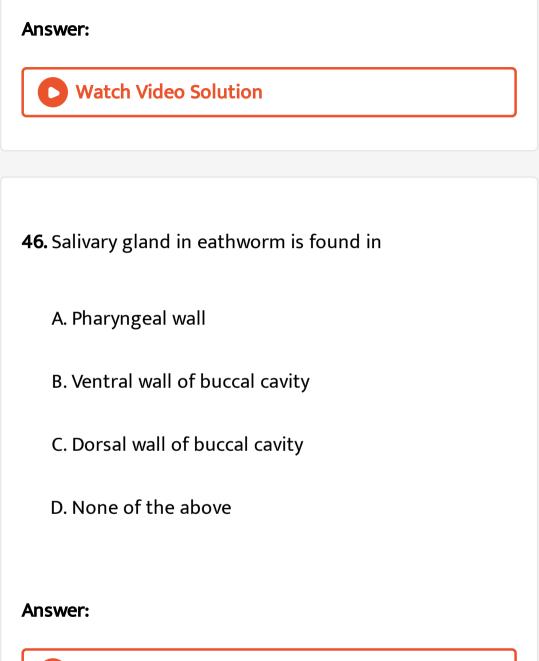
45. Earthworms is brown due to presence of

A. Blood

B. Haemoglobin

C. Haemocyanin

D. Porphyrin



Watch Video Solution

47. Idenfity the excretory organs of cockroaches

A. Malpighian tubules

B. Septal nephridia

C. Nephrons

D. Integumentary nephridia

Answer:

Watch Video Solution

48. Segment of earthworm bearing mouth is

A. Prostomium

B. Peristomium

C. Clitellum

D. Pygdium

Answer:

Watch Video Solution

49. Setae of earthworm is made up of_____



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:



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

Answer:



54. Match the following column I with column II and

choose the correct option

	Column I	Column II
	A. Earthworm	- (i) Trachea
	B. Cockroach	- (ii) Diaphragm
1	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:



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:

Watch Video Solution

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

Answer:



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

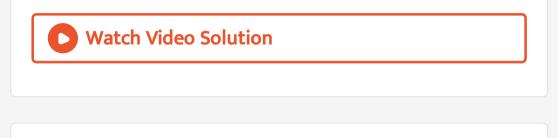
A. Periplaneta americana

B. Blattella germanica

C. Blatta orientalis

D. Diploptera punctata

Answer:



62. _____is the zoological name of Indian green frog



- **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:



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

Answer:



68. Match the following columne I with column II and

choose the correct option

Column I	Column II
A. Labrum	- i) Tongue
B. Mandible	- ii) Lower lip
C. Hypopharynx	- iii) Upper lip
D. Làbium	- 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:



69. Which one of the following is incorrect regarding the

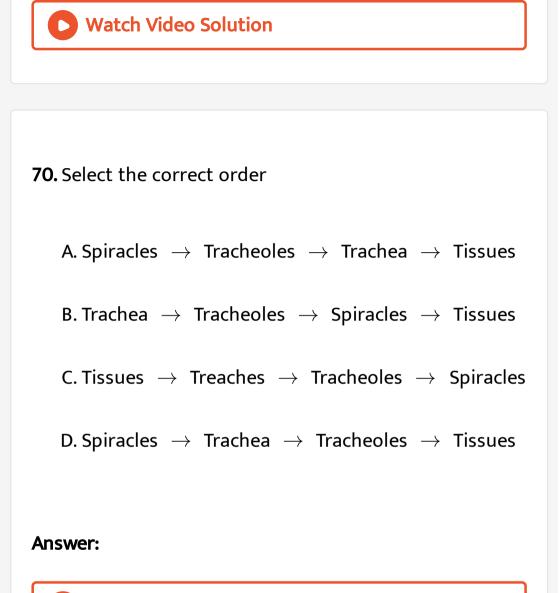
walkings legs of cockroaches?

A. Coxa

B. Tarsus

C. Tegmina

D. Trochanter





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

A. 4

B. 5

C. 6

D. 7

Answer:



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

A. Ventricle

B. Left auricle

C. Right auricle

D. Sinus venosus

Answer:



74. Amphibian heart is

A. One chambered

B. Two chambered

C. Three chambered

D. For chambered



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:



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:

D Watch Video Solution

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

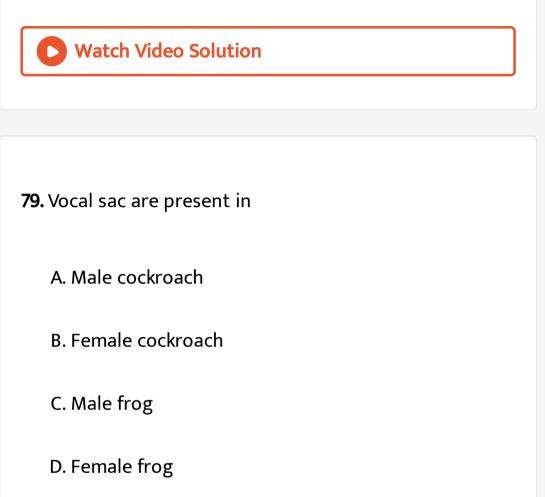
A. X

B. A

C. Z

D. L

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

B. 6^{th} segment

C. 7^{th} segment

D. 8^{th} segment

Answer:

Watch Video Solution

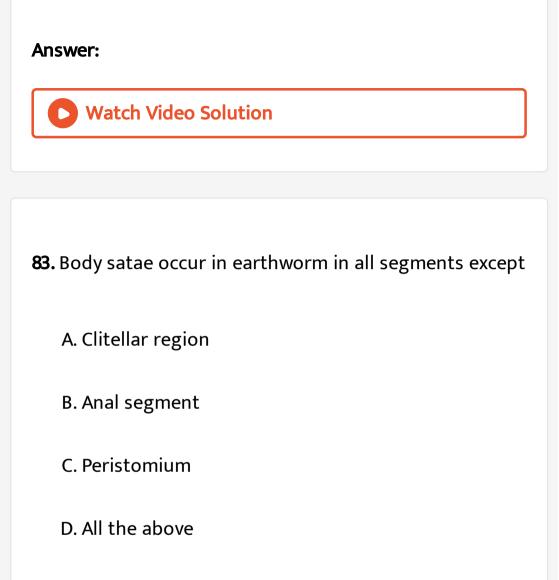
82. Earthworm is placed in the class

A. Polychaeta

B. Oligochaeta

C. Hirudinea

D. Crustacea





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

Answer:

Watch Video Solution

85. In earthworm fertilization occurs in

A. Oviduct

B. Spermatheca

C. Cocoon

D. Clitellum

Answer:

Watch Video Solution

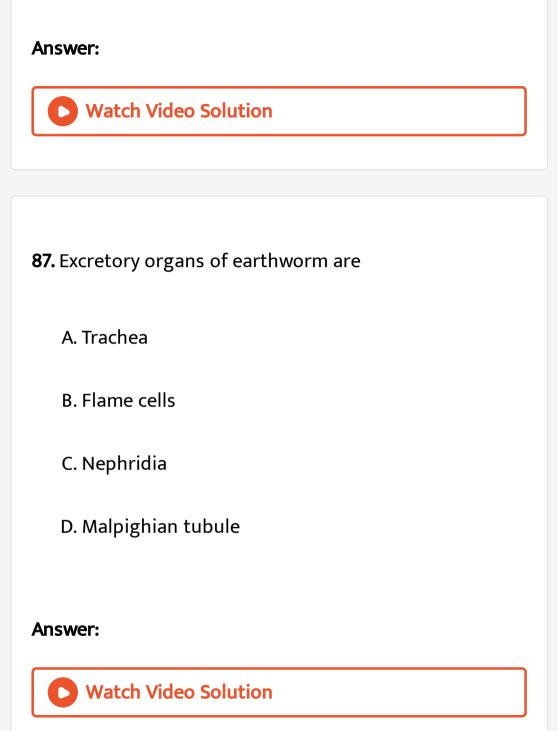
86. Earthworm has

A. Two eyes

B. No eyes

C. Many eyes

D. One eye



88. In earthworm, mouth is situated on

A. Prostomium

B. Peristomium

C. Pygedium

D. Stomium

Answer:

Watch Video Solution

89.___ is a liquid obtained from earthworms

A. Vermiwash

B. Vemiliquid

C. Vermicompost

D. Wormbin

Answer:

Watch Video Solution

90.____kind of vision is found in cockroaches

A. Simple vision

B. Mosaic vision

C. Blind vision

D. Double vision

Answer:



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

A. Monoecious

B. Dioecisous

C. Oviparous

D. Nocturnal



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 IColumn IIA. Forelimb of frog - i) Vocal sacsB. Hindlimb of frog - ii) Ear drumC. Tympanic- iii) Four digits
membranesD. 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:



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:



97. Differentiate between male and female frog.

A. Anal cerci

B. Paired antennae

C. Gonapophysis

D. Anal styles

Walth Video Solution

98. The heart of cockroach has __chambers.

A. 6 chambered

B. 8 chambered

C. 9 chambered

D. 13 chmabered

Answer:



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



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

A. Caecae

B. Valves

C. Villi

D. Teeth

Answer:



103. Autonomic nervous system includes

A. Sympathetic nervous system

B. Cranial nerves

C. Spinal nerves

D. Brain

Walch Video Solution

104. Select the odd one

A. Lateral ventricle

B. Right ventricle

C. Optic ventricle

D. Olfactory ventricle

Answer:



105. The hind brain of frog is called-

- A. Rhombencephalon
- B. Mesencephalon
- C. Telencephalon
- D. Prosencephalon

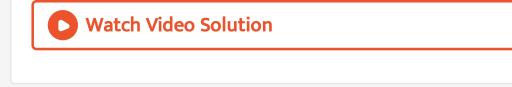
Answer:

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106. In frog, the partially digested food is called____



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:



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

A. Pituitary body

B. Pineal body

C. Optic chiasma

D. Olfactory lobe

Answer:

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.

