



BIOLOGY

BOOKS - CHETANA BIOLOGY (MARATHI ENGLISH)

Study of Animal Type:Cockroach

Example

1. How many different types of animals are present around us?



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2. Which phylum is most diverse and populous?



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3. Write a note on habitat and habits of cockroach.



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4. which species of cockroach is common in India?



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5. which species of cockroach is common in India?



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6. Give the systematic position of cockroach.





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7. Give the systematic position of cockroach.



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8. Name the phylum and class to which cockroach belongs.



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9. Describe the external morphology of cockroach.



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10. With the help of Dorsal view of cockroach explain the external features of cockroach.



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11. Write a note on body division of cockroach.



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12. Write a note on body division of cockroach.



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13. Write a note on body division of cockroach.



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14. Explain Antennae of cockroach.



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15. Mouth parts of cockroach are of type



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16. Explain the digestive system of cockroach with the help of neat labelled diagram?



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17. Which mouth part of cockroach is comparable to our tongue?



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18. Describe the structure of head regions of cockroach.



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19. Name the structural unit of compound eye of cockroach.



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20. How many segments are present in the abdomen of cockroach.



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21. Describe sexual dimorphism in cockroach/*Periplaneta americana*.



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22. Why do insects need moulting?



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23. What is the difference between simple and compound eye?



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24. Where are sclerite present in cockroach?



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25. Differentiate between male and female cockroach.



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26. What is Cervix in cockroach.



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27. Write a note on thorax of cockroach.



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28. Write a note on legs of cockroach.



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29. Draw a neat labelled diagram of legs of cockroach.



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30. Write a note on wings of cockroach.



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31. What are anal cerci?



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32. Write a note on abdomen of cockroach.



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33. Explain the abdomen of *Periplaneta americana*.



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34. What are spiracles?



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35. Define spiracles.



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36. State the function of spiracle.



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37. Write in short: Location of tergum.



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38. Give the binomial nomenclature of cockroach.



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39. What are wing covers?



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40. State the function of forewings and hindwings.



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41. What are Palpigers?



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42. Define Fenestrae.



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43. Define Cannibalism.



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44. Which is the strongest segment in the leg of cockroach?



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45. Name the parts of podomeres.



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46. What is mosaic vision? Describe.



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47. Write a note on body cavity of cockroach.



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48. Explain the digestive system of cockroach with the help of neat labelled diagram?



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49. Explain the digestive system of cockroach with the help of neat labelled diagram?



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50. Describe the structure and functions of gizzard of cockroach.



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51. Describe the structure of gizzard of cockroach with the help of neat labelled diagram.



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52. Write a note on salivary glands of cockroach.



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53. Where do you find Malpighian tubules?



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54. Mention the function of malpighian tubule.



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55. Mention the function of colon.



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56. Mention the function of midgut.



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57. List the functions of gizzard in cockroach alimentary canal.



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58. Mention the position of opening of salivary duct.



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59. Define pleura.



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60. Explain the circulatory system in periplaneta.



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61. Sketch and label circulatory system of cockroach.



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62. With the help of neat labeled diagram explain single circulation.



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63. Write short notes on: Haemocoel



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64. Write short notes on: Haemolymph.



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65. Explain the mechanism of blood circulation in cockroach.



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66. Explain the mechanism of blood circulation in cockroach.



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67. State the position of alary muscles and diaphragm during diastole in cockroach.



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68. Diaphragm becomes convex during systole.

Justify.



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69. In cockroach ventral nerve cord is present in the..... .



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70. State the composition of haemolymph.



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71. What is Perivisceral sinus?



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72. Explain the respiratory system in *Periplaneta americana*.



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73. With the help of neat labelled diagram, describe the respiratory system of cockroach.



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74. Write a short note on Spiracles.



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75. The largest spiracles in cockroach are



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76. How are spiracles distributed in cockroach.



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77. Name the parts of respiratory system of cockroach.



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78. Name the opening of trachea in cockroach.



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79. Write a note on excretory system in Cockroach.



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80. Write a note on excretory system in Cockroach.



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81. State the function of Nephrocytes.



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82. Give an account of the nervous system in cockroach.



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83. With help of neat labelled diagram describe the nervous system of *Periplaneta americana*.



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84. Sketch and label the central nervous system of cockroach.



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85. Name the different sensory organs in the head of cockroach.



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86. Write a note on eyes of cockroach.



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87. Explain male reproductive system of cockroach.



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88. Explain male reproductive system of cockroach.



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89. Explain male reproductive system of cockroach.



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90. Explain female reproductive system of cockroach.



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91. Explain female reproductive system of cockroach.



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92. Sketch and label the female reproductive system.



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93. What is Ootheca?



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94. Define Ootheca.



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95. What are Spermatophores?



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96. What are Spermatophores?



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97. State the function of ootheca.



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98. Define phallic gland.



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99. Define phallic gland.



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100. What are collateral glands?



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101. What are collateral glands?



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102. What are Spermatophores?



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103. Define ovipositor.



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104. What is copulation?



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105. What is copulation?



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106. Define Phallomere.



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107. How many ovarioles are present in the ovary of cockroach.



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108. How many ootheca are produced by female cockroach.



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109. Explain the stages of development of eggs in cockroach.



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110. Cockroaches are harmful and useful to mankind justify.



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111. Write a note on control measures of cockroaches.



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112. Cockroaches are bioindicators. Justify.



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113. Differentiate between male and female cockroach.



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114. What is the functional difference between respiratory system of cockroach and human being?



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115. What is the functional difference between eyes of cockroach and human being.



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116. Define anal cerci.



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117. What are anal cerci?





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118. What is ganglion?



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119. What is ganglion?



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120. What is the role of hypopharynx?





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121. State the function of hypophaynx.



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122. What is mesenteron?



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123. What is mesenteron?





[Watch Video Solution](#)

124. Write in short: Location of tergum.



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125. What is Ootheca?



[Watch Video Solution](#)

126. How many chambers are present in heart of cockroach?



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127. What would have happened of cockroach did not had gizzard?



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128. Explain the mechanism of blood circulation in cockroach.



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129. Asha observed that cockroach are killed by putting them on soap water. Teacher said it is due to its peculiar respiratory system. How?



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130. Explain the stages of development of eggs in cockroach.



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Exercise

1. Chemical nature of chitin is..... .

A. protein

B. carbohydrate

C. lipid

D. glycoprotein

Answer:



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2. Cockroach has.....type of mouthparts.

A. sponging

B. chewing and biting

C. piercing and Sucking

D. lapping

Answer:



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3. Spiracle is a part of.....system of cockroach.

A. circulatory

B. respiration

C. reproductive

D. nervous

Answer:



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4.is a part of digestive system.

A. Trachea

B. Hypopharynx

C. Haemocyte

D. Seminal vesicle

Answer:



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5.is also called as brain of cockroach.

A. Supra-oesophageal ganglion

B. Sub-oesophageal ganglion

C. Hypo-cerebral ganglion

D. Thoracic ganglion

Answer:



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6. Dorsal exoskeletal plates of cockroach are called..... .

A. terga

B. stema

C. pleura

D. episclerites

Answer:



7. Mouth parts of cockroach are of type

A. chewing and biting type

B. sponging type

C. sucking type

D. siphoning type

Answer:



8. The hepatic caeca of cockroach

- A. excretion
- B. secretion of enzymes
- C. respiration
- D. sensation

Answer:



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9. Blood filled cavity in cockroach is called..... .

A. haemocoel

B. paracoel

C. spongocoel

D. metacoel

Answer:



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10. In cockroach ventral nerve cord is present in the..... .

- A. pericardial sinus
- B. perineural sinus
- C. head sinus
- D. perivisceral sinus

Answer:



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11. Heart of cockroach is.....chambered.

A. 12

B. 10

C. 13

D. 15

Answer:



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12.abdominal ganglion in cockroach is the largest.

A. first

B. last

C. second

D. fourth

Answer:



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13. Which of the following is not the part of male reproductive system?

A. seminal vesicle

B. phallic gland

C. vas deferens

D. spermatheca

Answer:



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14. In cockroach the head is joined to thorax by a narrow neck called..... .

A. connective

B. connection

C. cervicum

D. conjunction

Answer:



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15. Single component of the compound eyes of a cockroach is a hexagonal unit termed as.....

.

A. retina

B. conjunctivum

C. ommatidium

D. hexogonium

Answer:



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16.are the organs of olfaction of the cockroach.

A. antennae

B. olfactory epithelium

C. labium

D. labrum

Answer:



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17.is the upper lip of the cockroach.

A. labium

B. mandible

C. maxilla

D. labrum

Answer:



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18. The chitinous plates in the segments of the cockroach are known as..... .

A. sclerites

B. terga

C. coxa

D. ommatidia

Answer:



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19. Each leg of the cockroach has.....sub-units called podomeres.

A. 2

B. 3

C. 4

D. 5

Answer:



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20. Male cockroach differs from female cockroach in exhibiting..... .

- A. the presence of anal style
- B. the presence of segmented cerci
- C. the presence of spiracles
- D. the presence of gonapophysis

Answer:



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21. Chitinous plates surrounding the genital openings are known as..... .

A. sclerites

B. terga

C. gonapophysis

D. spiracle

Answer:



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22. Hind gut of cockroach is also known as..... .

A. proctodaeum

B. stomodaeum

C. rhombodaeum

D. mesenteron

Answer:



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23. Gizzard of cockroach is provided with circle of.....chitinous teeth.

A. 4

B. 5

C. 6

D. 7

Answer:



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24. Anus is located below.....tergum.

A. 7th

B. 9th

C. 10th

D. 11th

Answer:



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25. Cockroach has.....thoracic ganglia.

A. 3

B. 4

C. 5

D. 6

Answer:



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26.abdominal ganglion in cockroach is the largest.

A. 4

B. 5

C. 6

D. 7

Answer:



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27. In cockroach, 6th abdominal ganglion lies in..... .

A. between 5th and 6th segment

B. in the 6th

C. between 6th and 7th segment

D. 7th segment

Answer:



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28. In cockroach, nerves supplied to mandibles and maxillae arise from..... .

A. supra-oesophageal ganglia

B. Sub-oesophageal ganglia

C. both a and b

D. none of these

Answer:



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29. In cockroach, nerves supplied to wings arise from..... .

A. supra-oesophageal ganglia

B. Sub-oesophageal ganglia

C. abdominal ganglia

D. thoracic ganglia

Answer:



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30. Cockroach adaptation is..... .

A. Cursorial

B. Arboreal

C. Fossorial

D. Aquatic

Answer:



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31. Vision in cockroach is..... .

A. monocular

B. mosaic

C. binocular

D. ultrasonic

Answer:



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32. Blood filled cavity in cockroach is called..... .

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B. paracoel

C. spongocoel

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Answer:



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33. Which of the following is not the part of male reproductive system?

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D. spermatheca

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34. Mention the function of malpighian tubule.



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35. State the function of Hepatic caecae.



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45. Sketch and label circulatory system of cockroach.



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