



BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

PERIPLANETA AMERICANA (COCKROACH)

Very Short Answer Type Questions

1. Why do you call cockroach is a pest ?



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2. Name the terga of thoracic segments of cockroach .



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3. What are the structures with which cockroach walks on smooth surfaces and on rough surfaces respectively ?



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4. Head of cockroach is hypognathous because



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5. How is a tripod formed with reference to locomotion in cockroach ?



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6. Name the muscles that help in elevating and depressing the wings of a cockroach .



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7. Name the different blood sinuses in cockroach .



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8. How are the fat bodies similar to the liver of the vertebrates ?



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9. Which part of the gut secretes the peritrophic membrane in cockroach ?



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10. In which part of the gut of cockroach , water is reabsorbed ?



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11. Write the names of mouthparts in cockroach that help in biting and tasting the food.



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12. What are alary muscles ?



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13. What is hemocoel ?



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14. The three sinuses in a cockroach are not equal in size . Why ?



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15. Why is the blood of Periplaneta called haemolymph ?



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16. What is the function of haemocytes found in the blood of Periplaneta ?



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17. Why does not the blood of Periplaneta help in respiration ?



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18. Write important functions of blood in Periplaneta .



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19. How many spiracles are present in cockroach ? Mention their locations .



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20. Trichomes are



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21. Why is the respiratory system of cockroach called polypneustic and holopneustic system ?



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22. What is intima ?



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23. During inspiration which spiracles are kept open and which are kept closed .



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24. Which factors regulate the opening of the spiracles ?



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25. Inspiration in cockroach is a passive process and expiration is an active process. Justify ?



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26. The nitrogenous wastes in Periplaneta are removed from the body through alimentary canal .Why ?



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27. How does the cuticle of a cockroach help in excretion ?



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28. How do fat bodies help in excretion?



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29. What is storage excretion ?



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30. Which structure of cockroach acts as sensory and endocrine centre ?



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31. Distinguish between scolopidia and sensillae .



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32. How is the ommatidium of cockroach different from that of diurnal insect ?



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33. Which of the abdominal ganglia is largest and why ?



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34. Name the structural and functional unit of compound eye of cockroach How many such units are present in a single compound eye ?



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35. Why is the brain called the principal sensory centre in cockroach ?



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36. Distinguish between apposition image and superposition image .



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37. List out the characters that help in understanding the difference between male and female cockroaches .



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38. What is the function of mushroom gland in cock gland in cockroach ?



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39. Compare the utriculi majores and utriculi breviores of the mushroom gland functionally.



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40. What are Phallomeres ?



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41. What are gona Pophyses ?



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42. How is colleteral gland helpful in reproduction of Periplaneta ?



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43. What is paurometabolous development ?



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Short Answer Type Questions

1. Draw a neat labelled diagram of the mouthparts of a cockroach .



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2. Describe the physiology of digestion in cockroach .



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3. Draw a neat labelled diagram of the salivary apparatus of cockroach .



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4. Describe the structure and function of the heart in Periplaneta .



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5. Describe the process of blood circulation in Periplaneta .



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6. How do contraction and relaxation of alary muscles help in circulation ?



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7. What are different excretory organs in Periplaneta? Describe the process of excretion in detail.



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8. How does periplaneta conserve water? Explain it with the help of excretion in it.



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9. Draw a neat and labelled diagram of Ommatidium.



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10. How can you identify the male and female cockroaches ? Explain it describing the chief structures of the external and internal genitalia .



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11. Describe the male reproductive system of cockroach .



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12. Describe the female reproductive system of cockroach .



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Long Answer Type Questions

1. Describe the digestive system of periplaneta with help of a neat labelled diagram .



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2. Describe the blood circulatory system of periplaneta in detail and draw a neat and labelled diagram of it .,



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3. Describe the respiratory system of cockroach with the help of neat and labelled diagrams .



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4. Describe the reproductive system of periplaneta and draw neat and labelled diagrams of it .



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Important Questions

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14. Draw a neat and labelled diagram of Ommatidium.



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15. Describe the male reproductive system of frog with the help of a labelled diagram.



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