



BIOLOGY

BOOKS - NIKITA PUBLICATION

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. Why do insects need moulting?



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



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5. Why body cavity of cockroach is called as haemocoel?



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6. What are anal cerci?



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7. What is ganglion?



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8. What is the role of hypopharynx?



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9. What is mesenteron?



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10. Write in short: Location of tergum.



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11. What is Ootheca?



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



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13. Where are sclerite present in cockroach?



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14. How many times do nymphs moult to reach the adult form of cockroach?



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



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



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



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18. Give the systematic position of cockroach.



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





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



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



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22. Give the location of hepatic caeca in a Cockroach. What is their function?



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23. Mention special features of eye in Cockroach.



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



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25. Tracheoles of cockroach are



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26. Explain female reproductive system of cockroach.



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



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28. 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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29. Answer in one word or one line.

Give the common name of *Periplaneta americana*.



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30. Answer in one word or one line.

What is the position of ovaries in cockroach?



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



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32. Where do you find Malpighian tubules?



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33. Answer the following:

Draw a labelled diagram of alimentary canal of a cockroach.



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Exercise

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

- A. Protein
- B. Carbohydrates
- 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:



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-oesophagea ganglion

C. Hypo-cerbral ganglion

D. Thoracic ganglion

Answer:



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6. Which one of the following 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 ureotelic

Answer:



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7. Match the following with reference of cockroach and choose the correct option?

A. Phallomere	i. Chain of developing ova
B. Gonopore	ii. Bundles of sperm
C. Spermatophore	iii. Opening of the ejaculatory duct
D. Ovarioles	iv. The external genitalia.

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

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

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

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

Answer:



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8. In cockroach crop is part of

A. Fore gut

B. Mid gut

C. Hind gut

D. Phallic gland

Answer:



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9. Collateral glands are present in

- A. Digestive system
- B. Circulatory system
- C. Male reproductive system
- D. Female reproductive system

Answer:



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10. The basal segment of antenna is called

A. Pedicel

B. Scape

C. Clypeus

D. Frons

Answer:



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11. In cockroach, stomodaeal valve is present between

A. Gizzard and mesenteron

B. Mesenteron and ileum

C. Crop and gizzard

D. ileum and colon

Answer:



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12. *Periplaneta americana* differs from *Blatta orientalis* in

- A. Well developed wings
- B. Absence of wings
- C. Only first pair of developed wings
- D. Only second pair of developed wings

Answer:



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13. In cockroach, which one is called accessory jaw

A. Mandible

B. Maxilla

C. Labium

D. Labrum

Answer:



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14. Cockroach is

- A. Carnivorous
- B. Herbivorous
- C. Omnivorous
- D. Sanguivorous

Answer:



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15. Haemolymph of cockroach contains

A. Erythrocytes and plasma

B. Plasma and respiratory pigments

C. Haemocytes, Leucocytes and plasma

D. Haemocytes and plasma

Answer:



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16. Which of the following two parts in cockroach are fundamentally similar in structure

A. Mandible and antenna

B. Maxilla and labium

C. Wings and cerci

D. Annal style and labrum

Answer:



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17. In periplaneta, the sclerites which surround the genital aperture are termed as

A. Genatals

B. Gonophores

C. Phalomerres

D. Stips

Answer:



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18. Which of the following is correct regarding cockroach.

- A. Monogenic, omnivorous,
haemocoelomate and nocturnal
- B. Omnivorous, nocturnal, dioecious and
cursorial
- C. Nocturnal, Cursorial, Pseudocoelomate
and omnivorous
- D. Monoecious, fassorial, nocturnal and
coelomate

Answer:



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19. Head capsule of cockroach is formed by fusion of segments.

A. One

B. Three

C. Two

D. Six

Answer:



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20. Correct arrangement of leg parts in cockroach is

- A. Coxa, femur, tronchanter, tibia and claws
- B. Coxa, tronchanter, femur, tibia and claws
- C. Coxa, tibia, femur, tronchater and claws
- D. Coxa, plantula, femur, tibia and claws

Answer:



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21. In cockroach, antennae function as

- A. Locomotary organs
- B. Tectile and olfactory organs
- C. As a prey catcher
- D. Sense of vision

Answer:



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22. Role of rectal pads present in cockroach is?

- A. Excrete uric acid
- B. Degradation of fats
- C. Absorption of water
- D. Filtering undigested food

Answer:



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23. On contraction of alary muscles, the size of pericardial sinus

A. Decreases

B. Increases

C. Remain same

D. No relation between two

Answer:



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24. Blatta orientalis is native of

A. Asia

B. America

C. Africa

D. Australia

Answer:



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25. Which abdominal ganglion is larger

A. Second

B. Fourth

C. Sixth

D. First

Answer:



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26. Tegmina of cockroach is supplied by nerves from the ganglion of

A. Prothorax

B. Mesothorax

C. Metathorax

D. Abdominal

Answer:



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27. During copulation, cockroach transfer male gametes in the form of

A. Sperms

B. Ootheca

C. Spermatophores

D. Spermatids

Answer:



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28. Match the columns and choose the exact combinations

Column I	Column-II
A. Ommatidia	1. Articulation with thorax
B. Trochanter	2. For vision
C. Coxa	3. Forming exoskeleton
D. Sclerites	4. Fused with larger and stout, femus

	A	B	C	D
a)	4	3	1	2
b)	1	2	3	4
c)	2	4	1	3
d)	3	1	2	4



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29. A stage between two successive moults of nymph of cockroach is called

A. Larva

B. Instar

C. Caterpillar

D. Imago

Answer:



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30. Which of the following is correctly stated as happen in common cockroach.

A. the food is grounded by mandible and gizzard.

B. Nitrogenous excretory product is urea.

C. Malpighian tubules are organ projecting out from colon

D. Oxygen is transported by haemoglobin in blood

Answer:



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31. Excretory organ in cockroach is

- A. Flame cells
- B. Malpighian tubules
- C. Green glands
- D. Metanephridia

Answer:



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32. Which of the following statement is correct regarding utricular glands of cockroach.

A. They are accessory glands of female

B. They found in female and secrete egg case

C. They are male accessory glands and present in the 6th and 7th abdominal segments.

D. They associate with male sex and helps the sperm to fertilize the egg.

Answer:



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33. A tectile organ in cockroach is

A. Antennae

B. Fenestra

C. Anal cerci

D. Ommatidia

Answer:



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34. The lacunated type of circulatory system is found in

A. Earthworm

B. Cockroach

C. Sepia

D. Leech

Answer:



35. Malpighian tubules are analogous to

- A. Trachea of cockroach
- B. Gills of mollusca
- C. Flame cells of lower animals
- D. Vacuoles of plants

Answer:



36. Mushroom glands are associated with which system of cockroach.

- A. Digestive
- B. Circulatory
- C. Female reproductive
- D. Male reproductive

Answer:



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

A. 10,10

B. 8,10

C. 7,9

D. 9,10

Answer:



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38. The changes that allows the conversion of larva into adult is called

- A. Alternation
- B. Metastasis
- C. Metagenesis
- D. Metamorphosis

Answer:



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39. How many segments are present in the anal style of male cockroach.

A. Seven

B. Ten

C. Five

D. Unjointed

Answer:



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40. Cardo, stipes, galea, and lacinia are other parts of

- A. Eye of cockroach
- B. Maxilla of cockroach
- C. Leg of cockroach
- D. Antennae of cockroach

Answer:



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41. What external changes are visible after the last moult of cockroach nymph?

- A. Both fore wings and hind wings develop
- B. Labium develops
- C. Mandible becomes harder
- D. Anal cerci develop

Answer:



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42. Number of fertilized eggs in ootheca of cockroach is

A. 16 pairs in two rows

B. 16 in two rows

C. 10 in one rows

D. 8 in two rows

Answer:



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43. In cockroach, metamorphosis is

- A. Complete direct
- B. Incomplete indirect
- C. Gradual direct
- D. Complex direct

Answer:



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44. Organ of mastication in cockroach is

A. Mandible

B. Labrum

C. Labium

D. Maxilla

Answer:



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45. Hepatic caeca in cockroach are derived from
from

A. Iileum

B. Midgut

C. Oesophagus

D. Crop

Answer:



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46. Which of the following statement is correct regarding cockroach?

A. Compound eye is also called as ocellus

B. Spiracles helps in excretion

C. Ventricular ganglion is present on
gizzard

D. Phallomeres are present in both the
sexes

Answer:



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47. Adhesive pads found on the tarsus of cockroach legs are called.

A. Arolium

B. Coxa

C. Tronchater

D. Tarsomere

Answer:



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48. Which of the followign is correct about circulatory system of cockroach?

A. It is present vertrally and has 13 units in the heart in abdominal region

B. It is present dorsally and has 13 units in the abdominal region

C. It is present dorsally and has 10 abdominal and 3 thoracic units in the heart

D. it is present ventrally and has 10 abdominal and 3 thoracic units in the heart

Answer:



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49. Peritrophic membrane is associated with digestive system of

A. Frog

B. Cockroach

C. Man

D. Earthworm

Answer:



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50. The direction of blood flow in the heart of cockroach is

A. Posterior to anterior

B. Anterior to posterior

C. In both way

D. Unidirectional

Answer:



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