



BIOLOGY

BOOKS - NIKITA PUBLICATION

STUDY OF ANIMAL TYPE: COCKROACH

Exercise

1. The ventral body plates of cockroach are called

A. Terga

B. Sterna

C. Pleura

D. Chitin

Answer:



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2. In cockroach hind wings are associated with

A. Head

B. Prothorax

C. Mesothorax

D. Metathorax

Answer:



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3. In cockroach food is cut by

A. tongue

B. Maxilla

C. Labium

D. Mandible

Answer:



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4. In cockroach crop is part of

A. Fore gut

B. Mid gut

C. Hind gut

D. None of these

Answer:



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5. Ventral nerve cord of cockroach consists of how many ganglia.

A. 6

B. 10

C. 9

D. 12

Answer:



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6. Collateral glands are present in

A. Digestive system of cockroach

B. Circulatory system of cockroach

C. Male reproductive system of cockroach

D. Female reproductive system of
cockroach

Answer:



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7. The basal segment of antenna is called

A. Scape

B. Pedicel

C. Clypeus

D. Frons

Answer:



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8. In cockroach ootheca is formed by the secretion of

A. Phallic gland

B. Mushroom shaped gland

C. Collateral gland

D. All of these

Answer:



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9. In cockroach, ovary consists of how many ovarioles

A. 10

B. 8

C. 6

D. 4

Answer:



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10. In cockroach, stomodaeal valve is present between

A. Gizzard and mesenteron

B. Crop and gizzard

C. Mesenteron and ileum

D. Ileum and colon

Answer:



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11. The part of head capsule of cockroach present between the eyes is

A. Clypeus

B. Epicranium

C. Gena

D. Ocellus

Answer:



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12. The simple eyes of cockroach are known as

A. Frons

B. Clypeus

C. Fenestrae

D. Genae

Answer:



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13. *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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14. Which part of cockroach has both exo and endoskeleton.

A. Thorax

B. Head

C. Abdomen

D. All of these

Answer:



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15. In cockroach, which one is called accessory jaw

A. Maxilla

B. Mandible

C. Labrum

D. Labium

Answer:



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16. In cockroach, wings are absent from

A. Prothorax

B. Mesothorax

C. Metathorax

D. Thorax

Answer:



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17. Cockroach is

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

Answer:



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18. Haemolymph of cockroach contains

- A. Erythrocytes and plasma
- B. Respiratory pigment only
- C. Haemocytes, leucocytes and plasma
- D. Haemocytes and plasma

Answer:



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19. In insects, compound eyes are formed of

A. Ommatidia

B. Ocelli

C. Eye spots

D. Haematochrome

Answer:



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

A. Mandible and antennae

B. Wings and anal cerci

C. Anal style and labrium

D. Maxilla and legs

Answer:



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21. In periplaneta, the number of spiracles is

- A. Six pairs
- B. Eight pairs
- C. Ten pairs
- D. Twelve pairs

Answer:



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

- A. Genitals
- B. Gonophores
- C. Sterna
- D. Gonapophyses

Answer:



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23. The generic name periplaneta was given by

- A. Linnaeus
- B. Degeer
- C. Burmeister
- D. Rosenhoff

Answer:



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24. Two common Indian cockroaches are

A. *Periplaneta americana* and *Blatta indica*

B. *Periplaneta americana* and *Blatta germanica*

C. *Periplaneta americana* and *Blatta germanica*

D. *Periplaneta indica* and *Blatta orientalis*

Answer:



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25. In cockroach, sclerites are joined by

A. Terga

B. Pleura

C. Sterna

D. Arthrodial plates

Answer:



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26. Mouth of cockroach is

- A. Prognathus
- B. Hypognathus
- C. Orthrognathus
- D. Opisthognathus

Answer:



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27. Mouth parts of cockroach are of type

A. biting and chewing

B. Sponging

C. Sucking

D. Lapping

Answer:



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

A. 1

B. 2

C. 3

D. 6

Answer:



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29. Number of sterna visible in female cockroach is

A. Ten

B. Nine

C. Eight

D. Seven

Answer:



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30. The wings which are used for flying in cockroach

- A. Fore wings
- B. Hind wings
- C. Both a and b
- D. None of these

Answer:



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31. Correct arrangement of leg parts in cockroach is

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

Answer:



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32. Arolium in cockroach helps in

- A. Digestion
- B. Locomotion
- C. Respiration
- D. Reproduction

Answer:



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33. Spiracles of cockroach which are larger and always kept open are

- A. First and third pair
- B. First and second pair
- C. First and sixth pair
- D. Second and third pair

Answer:



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34. Anal cerci are present in

- A. Male Ascaris
- B. Male cockroach
- C. Female cockroach
- D. b and c

Answer:



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35. In cockroach, antennae function as

- A. Feeding structures
- B. Thigmoreceptor
- C. To help in catching insect
- D. Locomotory structures

Answer:



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36. Fore wings of cockroach are articulated to

- A. First abdominal segment

B. Prothorax

C. Metathorax

D. Mesothorax

Answer:



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37. Which one is absent in cockroach

A. Cephalothorax

B. Mesothorax

C. Prothorax

D. Metathroax

Answer:



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38. Peritrophic membrane is secreted by

A. Crop

B. Gizzard

C. Mid gut

D. Ileum

Answer:



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39. Function of rectal papillae of cockroach is

A. Absorption of aminoacids

B. Absorption of fats

C. Absorption of glucose

D. Absroption of water

Answer:



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40. Ecdysis and metamorphosis is controlled by which of the following glands in cockroach

- A. Corpus luteum
- B. Cropora allata
- C. Cropus callosum
- D. Prothoracic gland

Answer:



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41. Apposition image in insect is formed during

- A. Bright light
- B. Dimlight
- C. a and b
- D. None of these

Answer:



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42. Palpigers are the structures present on insects

A. Labrum

B. Labium

C. Antennae

D. Maxillae

Answer:



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43. Number of sterna visible in male cockroach is

A. Nine

B. Ten

C. Eight

D. Eleven

Answer:



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44. Tegmina are

- A. Used in flight
- B. Not used in flight
- C. Function as wings cover
- D. b and c

Answer:



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45. Acoustic organs of cockroach are located over

A. Anal style

B. Fenestrae

C. Anal cerci

D. Filament part of antennae

Answer:



46. In female cockroach, brood pouch is formed by

A. Seventh sternum

B. Eight sternum

C. Ninth sternum

D. All of these

Answer:



47. Female genital aperture of cockroach occurs over

A. Eight sternum

B. Seventh sternum

C. Ninth sternum

D. Between 9th sternum and 10th sternum

Answer:



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48. Number of segments in a leg of cockroach is

A. Three

B. Five

C. Six

D. Nine

Answer:



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49. The longest segment in the leg of cockroach is

A. Coxa

B. Tibia

C. Femur

D. Trochanter

Answer:



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50. Metathoracic wings in cockroach are

- A. Tegmina
- B. Hemielytra
- C. hind wings
- D. Elytra

Answer:



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51. Alary muscles in cockroach are connected with

A. Trachea

B. heart

C. Legs

D. Alimentary canal

Answer:



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52. Tracheoles of cockroach are

A. With cuticular rings

B. Without cuticular rings

C. With cuticular rings and tissue fluid

D. Without cuticular rings and with tissue
fluid

Answer:



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53. Number of thoracic and abdominal ganglia in cockroach respectively is

A. Six, three

B. Six, six

C. Three, six

D. Three three

Answer:



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54. Which type of vision is found in cockroach

A. Binocular

B. Monocular

C. Panaromic

D. Mosaic

Answer:



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55. Number of fertilized eggs in ootheca of cockroach is

- A. 16 in two rows
- B. 16 pairs in two rows
- C. 10 in one rows
- D. 8 in two rows

Answer:



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56. The process of conversion of nymph into imago in the life cycle of cockroach is called

- A. Moulting
- B. Metamorphosis
- C. Ecdysis
- D. Transformation

Answer:



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57. Phallic gland of cockroach mainly helps in

A. Formation of spermatophores

B. Reproduction

C. Growth

D. Excretion

Answer:



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58. Which one of the following characters of the forewing of cockroach is wrong

- A. Leathery
- B. Opaque
- C. Without veins
- D. Protective

Answer:



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59. Which part of digestive system secretes peritrophic membrane around the food in cockroach

A. Crop

B. Mesenteron

C. Hepatic caeca

D. Stomodaeals valve

Answer:



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60. The heart of cockroach is composed of

- A. 7 chambers
- B. 9 chambers
- C. 10 chambers
- D. 13 chambers

Answer:



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61. The respiratory passage in cockroach during inspiration is

- A. Spiracle and trachea
- B. Longitudinal respiratory tube
- C. Air chamber
- D. Stigmata

Answer:



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62. Trachea are supported by chitinous rings

- A. Inside the epithelium
- B. Outside the epithelium
- C. In between two epithelial layers
- D. Both inside and around epithelium

Answer:



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63. Digestion in periplaneta begins in

A. Preoral cavity

B. Crop

C. Midgut

D. Pharynx

Answer:



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64. The finger like blind tubules open into anterior part of midgut of cockroach are

- A. Intestinal caecae
- B. Malpighian tubules
- C. Hepatic caecae
- D. None of the above

Answer:



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

A. Decreases

B. Increases

C. Remain same

D. There is no relation between two

Answer:



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66. Function of stomodaeal valve in the gut of cockroach is to prevent the entry of food from.

A. Gizzard into midgut

B. Pre-oral cavity

C. Hindgut to midgut

D. Midgut to gizzard

Answer:



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67. The number of hepatic caeca in cockroach

is

A. Five

B. Eight

C. Twelve

D. Numerous

Answer:



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68. The hepatic caeca of cockroach

A. Absorb fully digested nutrients

B. Store excess food

C. Produce digestive enzymes

D. Remove few excretory products from partly digested food

Answer:



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69. The structural adaptation found in the alimentary canal of cockroach for the conservation of water is

A. Stomodeal valve

B. Rectal papillae

C. Presence of cuticle in gizzard

D. Peritrophic membrane in midgut

Answer:



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70. Statement A: The cockroach is a common nocturnal and omnivorous household pest

Statement B: This is because, it is a scavenger

A. (A) is true (B) is false

B. (A) is false but (B) is true

C. Both (A) and (B) are true and (B) is
correct explanation of (A)

D. Both (A) and (B) are true but (B) is not
the correct explanation of (A)

Answer:



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

- A. Posterior to anterior
- B. Anterior to posterior
- C. In both ways
- D. unidirectional

Answer:



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72. Utricular gland is found in

A. Female cockroach

B. Male cockroach

C. Scorpion

D. Spider

Answer:



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73. Life history of cockroach represents

A. Ametaboly

B. Paurometaboly

C. Holometaboly

D. None of these

Answer:



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74. In cockroach, the cellular lining of trachea is called

A. Intima

B. Serosa

C. peritoneum

D. Articular membrane

Answer:



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75. Atrium of periplaneta is

A. Tracheal ring

B. Tube of trachea

C. Cavity below spiracles

D. Fluid filled in trachea

Answer:



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76. Total number of ganglia present in ventral nerve cord of cockroach is

A. 6

B. 9

C. 10

D. 13

Answer:



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77. The largest spiracles in cockroach are

A. Prothoracic

B. Mesothoracic

C. Metathoracic

D. First abdominal

Answer:



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78. Which pair of spiracles are borne dorsolaterally over the tergum instead of plura

A. First thoracic

B. Second thoracic

C. First abdominal

D. Second abdominal

Answer:



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79. Number of longitudinal tracheal trunks in cockroach is

A. Three pairs

B. Three

C. Two

D. Two pairs

Answer:



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80. Chitinous rings supporting tracheae are called

A. Atria

B. Taenidia

C. Ctenidia

D. Lamellae

Answer:



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81. Nerve cord of cockroach is

A. Dorsal and single

B. Dorsal and double

C. Ventral and single

D. Ventral and double

Answer:



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82. Brain of cockroach is made of

A. One pair of ganglia

B. Two pairs of ganglia

C. Three pairs of ganglia

D. Four pairs of ganglia

Answer:



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83. Ocelli or fenestrae of cockroach take part in

A. Sight

B. Perception of temperature

C. perception of light

D. Perception of humidity

Answer:



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84. Humidity and temperature receptors are located in cockroach over

- A. Inner surfacde of laburm
- B. Labial palps
- C. Femur of leg
- D. Tarsus segment of leg

Answer:



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85. Testes of cockroach lie in which segments

A. 7th and 8th

B. 6th and 7th

C. 4th , 5th and 6th

D. 3rd and 4th

Answer:



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86. If the head of cockroach is removed, it may live for few days because.

A. the head holds a small proportion of a nervous system while the rest is situated along the ventral part of its body.

B. the head holds a 1/3rd of a nervous system while the rest is situated along the dorsal part of its body.

C. the supra-oesophageal ganglia of the cockroach are situated in ventral part of abdomen.

D. the cockroach does not have nervous system

Answer:



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