



BIOLOGY

BOOKS - SANTRA BIOLOGY (BENGALI ENGLISH)

STRUCTURAL ORGANISATION IN ANIMALS

**Exercise Objective Type Questions A Multiple
Choice Questions Mcq**

1. The exoskeleton of cockroach is made up of

A. calcium phosphate

B. calcium carbonate

C. calcium sulphate

D. chitinous cuticle

Answer: D



Watch Video Solution

2. Dorsal plate of cockroach is known as

A. pleuron

B. tergum

C. plastron

D. sturnum

Answer: B



Watch Video Solution

3. The chitinous endoskeleton in the head of Periplaneta

A. tentorium

B. notatum

C. termatorium

D. abdomen

Answer: A



Watch Video Solution

4. The clypeus in cockroach is a part of

A. head

B. wing

C. leg

D. abdomen

Answer: A



Watch Video Solution

5. Blood cells of cockroach is a part of

A. leucocytes

B. amoebocytes

C. haemocytes

D. erythrocytes

Answer: C



Watch Video Solution

6. Anal cerci is present in cockroach

A. in male cockroach

B. in female

C. in both

D. none of these

Answer: B



Watch Video Solution

7. Number of spiracles in cockroach

A. 10 pairs

B. 8 pairs

C. 6 pairs

D. 12 pairs

Answer: A



Watch Video Solution

8. Number of chambers present in the tubular
heart of cockroach

A. 7

B. 9

C. 13

D. 14

Answer: C



Watch Video Solution

9. During inspiration in cockroach the respiratory passage is

A. Air chamber

B. stigmata

C. spiracle and trachea

D. longitudinal respiratory tube

Answer: C



Watch Video Solution

10. Number of ganglion present in the ventral nerve cord of cockroach

A. 13

B. 10

C. 9

D. 6

Answer: C



Watch Video Solution

11. In *Periplaneta* hepatic caeca is derived from

A. mid gut

B. oesophagus

C. crop

D. ileum

Answer: C



Watch Video Solution

12. Colour of the blood in cockroach is due to

A. absence of haemoglobin

B. excess water in the blood

C. absence of salts in the blood

D. open type circulatory system

Answer: A



Watch Video Solution

13. The mouth parts of cockroach are

A. sponging type

B. siphoning type

C. piercing type

D. cutting and biting type

Answer: D



[Watch Video Solution](#)

14. Feeding habit in a cockroach is

A. herbivore

B. carnivore

C. omnivore

D. frugivore

Answer: C



[Watch Video Solution](#)

15. Egg case of Periplanceta is called

A. ootheca

B. gonophore

C. embryophore

D. female gamete

Answer: A



Watch Video Solution

16. Body cavity of Periplaneta is

A. coelenteron

B. coelom

C. haemocoel

D. pseudocoel

Answer: C



Watch Video Solution

17. Number of segments present in the flagellum of cockroach

A. more than 100

B. 11 segment

C. 13 segment

D. unsegmented

Answer: A



Watch Video Solution

18. First antennal segment is called

A. pedicel

B. frons

C. scape

D. none of the them

Answer: C



Watch Video Solution

19. In cockroach glossa and paraglossa are collectively designated as

A. ligula

B. labium

C. labrum

D. lingua

Answer: A



Watch Video Solution

20. Antenna in cockroach is concerned with

A. locomotory structure

B. help in catching prey

C. sensitive

D. feeding

Answer: C



Watch Video Solution

21. Fundamental similarity in structure in Periplaneta

A. anal style and labrum

B. maxilla and labium

C. wings and anal cerci

D. mandible and antenna

Answer: B



Watch Video Solution

22. Number of eggs present in the egg case of cockroach

A. 6

B. 8

C. 12

D. 16

Answer: D



Watch Video Solution

23. In which segment of cockroach testis is found

A. 3rd & 4th

B. 4th & 5th

C. 6th & 7th

D. 7th and 8th

Answer: B



Watch Video Solution

24. The main excretory product of cockroach is

A. Ammonia

B. Urea

C. Uric Acid

D. Urine

Answer: C



Watch Video Solution

25. The function of spermatheca in cockroach is

- A. storage of eggs
- B. secretion of musky fluid
- C. helps in copulation
- D. storing of sperms

Answer: D



Watch Video Solution

26. The compound eyes in cockroach are formed of

A. ommatidia

B. Urea

C. eye spots

D. all of these

Answer: A



Watch Video Solution

27. The similarity that exists in both Earthworms and cockroach

A. nephridia

B. trachea

C. cuticle

D. ventral nerve cord

Answer: D



Watch Video Solution

28. Periplaneta belongs to class

A. Crustacea

B. trachea

C. Insects

D. all of these

Answer: C



Watch Video Solution

29. The egg of Periplaneta is

A. centrolecithal

B. microlecithal

C. isolecithal

D. all of these

Answer: A



Watch Video Solution

30. Type of vision observed in cockroach is

A. monocular

B. binocular

C. mosaic

D. all of these

Answer: C



Watch Video Solution

31. Male and female cockroach can be identified by

A. anal cerci in females

B. anal styles in males

C. anal style and antennae in females

D. Both 'a' and 'b'

Answer: D



Watch Video Solution

32. Cockroach number of thoracic segments

A. 2

B. 3

C. 4

D. 5

Answer: B



Watch Video Solution

33. Salivary glands of Periplaneta secrete

A. cellulase

B. amylase

C. chitinase

D. all of these

Answer: B



Watch Video Solution

34. The pigment of blood of cockroach is

A. haemoglobin

B. xanthophyll

C. haemocyanin

D. carotene

Answer: C



Watch Video Solution

35. Regulation of metamorphosis occurs by

A. food

B. liver

C. brain

D. *corpose allata*

Answer: D



[Watch Video Solution](#)

36. Malpighian tubules of *Periplaneta* are for

A. osmoregulation

B. excretion

C. both a & b

D. digestion

Answer: B



[Watch Video Solution](#)

37. Number of ovarioles in each ovary in cockroach is

A. 4

B. 8

C. 16

D. 30

Answer: B



Watch Video Solution

38. Cockroach mainly excretes

A. Uric acid

B. Urea

C. Ammonia

D. Amino acid

Answer: A



Watch Video Solution

39. Heart of cockroach is

A. 13 - chambered

B. 29 - chambered

C. 9 - chambered

D. 6 - chambered

Answer: A



Watch Video Solution

40. Malpighian tubules are analogous to

A. Flame cells

B. Gills

C. Trachea of cockroach

D. None of these

Answer: A



Watch Video Solution

41. Compound eyes are found in

A. Frog

B. Earthworm

C. Cockroach

D. Round worm

Answer: C



Watch Video Solution

42. Which one will excrete silicates consumed by earthworm along with food?

- A. intestinal cells
- B. basal cells
- C. chloragogen cells
- D. flame cells

Answer: C



Watch Video Solution

43. The labium of Periplaneta is formed by

A. mentum

B. sub mentum

C. first maxillae

D. second maxillae

Answer: D



Watch Video Solution

44. Number of rectal gland in cockroach

A. 4

B. 6

C. 8

D. 12

Answer: B



Watch Video Solution

45. Number of walking legs in cockroach is

A. 2 pairs

B. 3 pairs

C. 4 pairs

D. 1 pair

Answer: B



Watch Video Solution

46. Which one is the appendages of 4th head segment in cockroach?

A. maxillae

B. labrum

C. mandibles

D. labium

Answer: C



Watch Video Solution

47. Abdomen of cockroach consists of no. of segments

A. 8

B. 10

C. 11

D. 12

Answer: B



Watch Video Solution

48. Between the claws a median delicate hair covered porous pad in cockroach called

A. pulvilles

B. plantula

C. arolium

D. elytra

Answer: C



Watch Video Solution

49. Respiratory system in cockroach consists of
of

A. collateral gland and mushroom gland

B. trachea, tracheoles and spiracles

C. perivisceral sinus and sternal sinus

D. malpighian tubules and cuticle

Answer: B



Watch Video Solution

50. The rate of heart - beat in Periptaneta is

A. 39/ min

B. 49/min

C. 59/min

D. 69/min

Answer: B



Watch Video Solution

51. Cockroach is

A. frugivorous

B. herbivorous

C. carnivorous

D. omnivorous

Answer: D



Watch Video Solution

52. Number of ommatidia in each compound eye of cockroach

A. 1000

B. 2000

C. 3000

D. 4000

Answer: B



Watch Video Solution

53. The structure prevents the tracheal tubes from collapsing in cockroach

A. peritreme

B. intima

C. tracheid

D. stigmata

Answer: B



Watch Video Solution

54. The cockroach is

A. Ureotelic

B. Uricotelic

C. Amniotelic

D. Hydrotelic

Answer: C



Watch Video Solution

55. Function of mushroom gland in cockroach is to

- A. Store eggs
- B. Form covering of spermatophore
- C. Provide nutrients to sperm
- D. Both (b) and (c)

Answer: D



Watch Video Solution

B Choose More Than One Options

1. The main structure play role in excretion are

A. Malpighian tubules

B. Fat body cell

C. Uricose gland

D. Ileum

Answer: A::B::C



Watch Video Solution

2. Stomodaeum consists of

A. Pharynx

B. Salivary gland

C. Grop

D. Oesophagus

Answer: A::B::D



Watch Video Solution

3. The position of the ovaries in cockroach are

A. 4th

B. 7th

C. 5th

D. 9th

Answer: A::C



Watch Video Solution

4. Central nervous system consists of

A. Ventral nerve cord

B. Protocerebrum

C. Brain

D. Photoreceptors

Answer: A::C



Watch Video Solution

5. In male reproductive system have

A. Ejaculatory duct

B. Mushroom gland

C. Spermatheca

D. Collateral glands

Answer: A::B



Watch Video Solution

6. In female reproductive system of cockroach have

A. Oviduct

B. Conglobate gland

C. Ovaries

D. Utriculi majores

Answer: A::C



Watch Video Solution

7. In sense organ photoreceptors are

A. Auditory receptors

B. Chemoreceptors

C. Compound eyes

D. Ocelli

Answer: C::D



Watch Video Solution

8. Proprioceptors found in

A. Joints of legs

B. Maxillary pulps

C. Antennae

D. Labial pulps

Answer: A::B



Watch Video Solution

9. In maxillae the segments from basal end are

A. Cardo

B. Stipes

C. Lacina

D. Trochanter

Answer: A::B::C



Watch Video Solution

10. Chemoreceptors found in

A. Leg bristies

B. Labil hypopharynx

C. Labial pulps

D. Maxillary pulps

Answer: B::C::D



Watch Video Solution

C Fill In The Blanks

1. Peritrophic membrane is found in _____ of cockroach.



Watch Video Solution

2. Oathea is secreted by _____ gland.



[Watch Video Solution](#)

3. The zoological name of common cockroach is _____.



[Watch Video Solution](#)

4. The mouth parts of cockroach are _____ or _____ type.



[Watch Video Solution](#)

5. Unit of _____ eye is ommatidium.



[Watch Video Solution](#)

6. The thorax of cockroach consists of three segments _____ and _____.



[Watch Video Solution](#)

7. The abdomen of cockroach consists of _____ segments.



[Watch Video Solution](#)

8. In cockroach, head bears a pair of _____ a pair of _____ and _____ around the mouth.



[Watch Video Solution](#)

D True Or False Statement Questions

1. Movement in cockroach involves the musculature of the body wall and setae.



[Watch Video Solution](#)

2. The abdomen of cockroach is somewhat flattened and consists of ten segments.



[Watch Video Solution](#)

3. Malpighian tubules are the main excretory organs of cockroach.



Watch Video Solution

4. The respiratory organ of cockroach is flame cell .



Watch Video Solution

5. The sexual dimorphism is not well marked in cockroach.



[Watch Video Solution](#)

Very Short Answer Type Questions

1. Give the common name of *Periplaneta americana*.



[Watch Video Solution](#)

2. Name the visual units of compound eye in cockroach.



Watch Video Solution

3. Where do you find Malpighian tubules?



Watch Video Solution

4. How many legs are found in cockroach?



Watch Video Solution

5. Name a nocturnal animal.



Watch Video Solution

6. What is the position of ovaries in cockroach
?



Watch Video Solution

7. What is the name of tracheal opening in cockroach?



[Watch Video Solution](#)

8. What are tegmina in cockroach?



[Watch Video Solution](#)

9. What type of body cavity is found in cockroach?



[Watch Video Solution](#)

10. How is male cockroach distinguished from female cockroach?



[Watch Video Solution](#)

Short Answer Type Questions

1. Name the mouth parts of a cockroach.



[Watch Video Solution](#)

2. Describe labrum of a cockroach.



Watch Video Solution

3. What is gonapophyses ?



Watch Video Solution

4. What is Malpighian tubules ?



Watch Video Solution

5. What is malpighian tubules?



Watch Video Solution

6. What type of nutrition found in cockroach?



Watch Video Solution

7. State about the egestion of cockroach.



Watch Video Solution

8. What are the types of haemocoel, found in cockroach?



Watch Video Solution

9. Mention the nature of heart of cockroach.



Watch Video Solution

10. What is haemolymph ?





[Watch Video Solution](#)

11. State the function of alary muscles in cockroach.



[Watch Video Solution](#)

12. What is the function of distal secretory part of the malphigian tubule ?



[Watch Video Solution](#)

13. Briefly state about the mushroom gland of cockroach.



Watch Video Solution

14. What are the parts of central nervous system of cockroach ?



Watch Video Solution

15. What are the photoreceptors in sense organ of cockroach ?



[Watch Video Solution](#)

16. Write the names of appendages associated with the head of a cockroach.



[Watch Video Solution](#)

17. A tactile organ in cockroach is

A. Antennae

B. Ommatidia

C. Fanestrae

D. Anal cerci

Answer:



Watch Video Solution

18. The clitellum of Pheretima is present in segments

A. 12,13,14

B. 13,14,15

C. 14,15,16

D. 15,16,17

Answer:



Watch Video Solution

19. What are spermatheca ? Where they are situated ? What is the function of spermatheca ?



Watch Video Solution

Long Answer Type Questions

1. Describe the external characters of cockroach. What is the importance of exoskeleton in insects?



[Watch Video Solution](#)

2. Discuss the circulatory or nervous system of cockroach.



[Watch Video Solution](#)

3. Give an account of reproductive organs of cockroach.



Watch Video Solution

4. Describe the abdomen of female cockroach.
Differentiate between male and female cockroach.



Watch Video Solution

5. Describe the respiratory organs and mechanism of respiration in cockroach.



[Watch Video Solution](#)

Ncert Questions

1. Somites/metameres/segments present in the body of earthworm are

A. 60-80

B. 80-100

C. 100-120

D. 120-160

Answer:



Watch Video Solution

2. Mention the function of malpighian tubules of cockroach.



Watch Video Solution

3. Distinguish between prostomium and peristomium.



Watch Video Solution