



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 sukphate

D. chitinous cuticle

Answer: D

2. Dorsal plate of cockroach is known as

A. pleuron

B. tergum

C. plastron

D. sturnum

Answer: B

3. The chitinous endoskeleton in the head of

Periplaneta

A. tentorium

B. notatum

C. termatorium

D. abdomen

Answer: A

4. The clypeus in cockroach is a part of

A. head

B. wing

C. leg

D. abdomen

Answer: A



5. Blood cells of cockroch is a part of

A. leucocytes

B. amoebocytes

C. haemocytes

D. erythrocytes

Answer: C

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6. Anal cerci is present in cockroach

A. in male cockroach

B. in female

C. in both

D. none of these

Answer: B

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7. Number of spiracles in cockroach

A. 10 pairs

B. 8 pairs

C. 6 pairs

D. 12 pairs

Answer: A



8. Number of chambers present in the tubular

heat of cockroach

A. 7

B. 9

C. 13

D. 14

Answer: C



9. During inspiration in cockroach the respiratory passage is

A. Air chamber

B. stigmata

C. spiracle and trachea

D. longitudinal respiratory tube

Answer: C



10. Number of ganglion present in the ventral

nerve cord of cockroach

A. 13

B. 10

C. 9

D. 6

Answer: C



11. In Periplaneta hepatic caeca is dervied from

A. mid gut

B. oesophagus

C. crop

D. ileum

Answer: C

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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





13. The mouth parts of cockroach are

A. sponging type

- B. siphoning type
- C. piercing type
- D. cutting and biting type

Answer: D



14. Feeding habit in a cockroach is

A. herbivore

B. carnivore

C. omnivore

D. frugivore

Answer: C

15. Egg case of Periplanceta is called

A. ootheca

B. gonophore

C. embryophore

D. female gamete

Answer: A

16. Body cavity of Periplaneta is

A. coelenteron

B. coelom

C. haemocoel

D. pseudocoel

Answer: C

17. Number of segments present in the

flagellum of cockroach

A. more than 100

B. 11 segment

C. 13 segment

D. unsegmented

Answer: A

18. First antennal segment is called

A. pedical

B. frons

C. scape

D. none of the them

Answer: C

19. In cockroach glossa and paraglossa are collectively designated as

A. ligula

B. labium

C. laburm

D. lingua

Answer: A

20. Antenna in cockroach is concerned with

A. locomotory structure

B. help in catching prey

C. sensitive

D. feeding

Answer: C



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

22. Number of eggs present in the egg case of

cockroach

A. 6

B. 8

C. 12

D. 16

Answer: D

23. In which segment of cockroach testis is found

A. 3rd & 4th

B. 4th & 5th

C. 6th & 7th

D. 7th and 8th

Answer: B

24. The main excretory product of cockroach is

A. Ammonia

B. Urea

C. Uric Acid

D. Urine

Answer: C



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

26. The compound eyes in cockroach are formed of

A. ommatidia

B. Urea

C. eye spots

D. all of these

Answer: A

27. The similarity that exists in both Earthwoms and cockroach

A. nephridia

B. trachea

C. cuticle

D. ventral nerve cord

Answer: D

28. Periplaneta belongs to class

A. Crustacea

B. trachea

C. Insects

D. all of these

Answer: C



29. The egg of Periplaneta is

A. centrolecithal

B. microlecithal

C. isolecithal

D. all of these

Answer: A

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30. Type of vision observed in cockroach is

A. monocular

B. binocular

C. mosaic

D. all of these

Answer: C

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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

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32. Cockroach number of thoracic segments

C. 4

D. 5

Answer: B



33. Salivary gands of Periplaneta secrete

A. cellulase

B. amylase

C. chitinase

D. all of these

Answer: B

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34. The pigment of blood of cockroach is

A. haemoglobin

B. xanthophyll

C. haemocyanin

D. carotene





35. Regulation of metamorphosis occurs by

A. food

B. liver

C. brain

D. corpose allata

Answer: D



36. Malpighian tubules of Periplaneta are for

A. osmoregulation

B. excretion

C. both a & b

D. digestion

Answer: B

37. Number of ovarioles is each ovary in cockroach is

A. 4

B. 8

C. 16

D. 30

Answer: B



38. Cockroach mainly excretes

A. Uric acid

B. Urea

C. Ammonia

D. Amino acid

Answer: A



39. Heart of cockroach is

- A. 13 chambered
- B. 29 chambered
- C. 9 chambered
- D. 6 chambered

Answer: A



40. Malpighian tubules are analogous to

A. Flame cells

B. Gills

C. Trachea of cockroach

D. None of these

Answer: A

41. Compound eyes are found in

A. Frog

- B. Earthworm
- C. Cockroach
- D. Round worm

Answer: C



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

43. The labium of Periplaneta is formed by

A. mentum

B. sub mentum

C. first maxillae

D. second maxillae

Answer: D



44. Number of rectal gland in cockroach

A. 4

B. 6

C. 8

D. 12

Answer: B

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45. Number of walking legs in cockroach is

A. 2 pairs

B. 3 pairs

C. 4 pairs

D.1 pair

Answer: B

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46. Which one is the appendages of 4th head

segment in cockroach?

A. maxillae

B. labrum

C. mandibles

D. labium

Answer: C

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47. Abdomen of cockroach consists of no. of

segments

B. 10

C. 11

D. 12

Answer: B

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

A. pulvilles

B. plantula

C. arolium

D. elytra

Answer: C

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49. Respiratory system in cockroach consists

of

A. collaterial gland and mushroom gland

B. trachea, tracheoles and spiracles

C. perivisceral sinus and sternal sinus

D. malpighian tubules and cuticle

Answer: B

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50. The rate of heart - beat in Periptaneta is

A. 39/ min

B. 49/min

C. 59/min

D. 69/min

Answer: B



51. Cockroach is

A. frugivorous

B. herbivorous

C. carnivorous

D. omnivorous

Answer: D

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52. Number of ommatidia in each compound eye of cockroach

A. 1000

B. 2000

C. 3000

D. 4000

Answer: B

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

A. peritreme

B. intima

C. tracheid

D. stigmata

Answer: B

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54. The cockroach is

A. Ureotelic

B. Uricotelic

C. Amniotelic

D. Hydrotelic





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)





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. lleum

Answer: A::B::C

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2. Stomodaeum consists of

A. Pharynx

- B. Salivary gland
- C. Grop
- D. Oesophagus

Answer: A::B::D



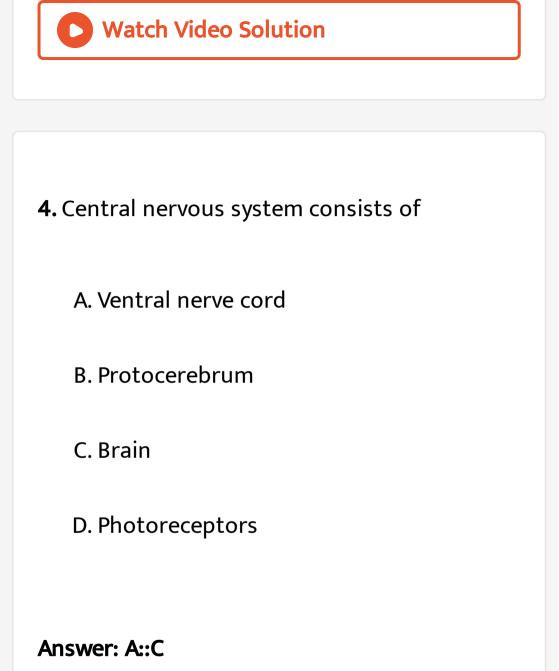
3. The position of the ovaries in cockroach are

A. 4th

- B. 7th
- C. 5th

D. 9th

Answer: A::C



5. In male reproductive system have

A. Ejaculatory duct

- B. Mushroom gland
- C. Spermatheca
- D. Collaterial glands

Answer: A::B

6. In female reproductive system of cockroach

have

A. Oviduct

B. Conglobate gland

C. Ovaries

D. Utriculi majores

Answer: A::C

7. In sense organ photoreceptors are

A. Auditory receptors

- B. Chemoreceptors
- C. Compound eyes
- D. Ocellli

Answer: C::D



8. Proprioreceptors found in

A. Joints of legs

- B. Maxillary pulps
- C. Antennae
- D. Labial pulps

Answer: A::B



9. In maxillae the segments from basal end are

A. Cardo

B. Stipes

C. Lacina

D. Trochanter

Answer: A::B::C

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10. Chemoreceptors found in

A. Leg bristies

B. Labil hypopharynx

C. Labial pulps

D. Maxillary pulps

Answer: B::C::D

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C Fill In The Blanks

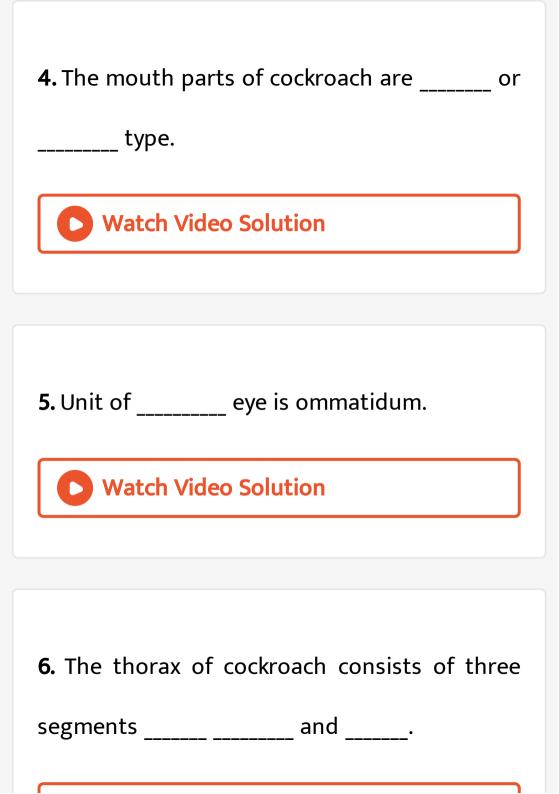
1. Peritrophic membrane is found in _____

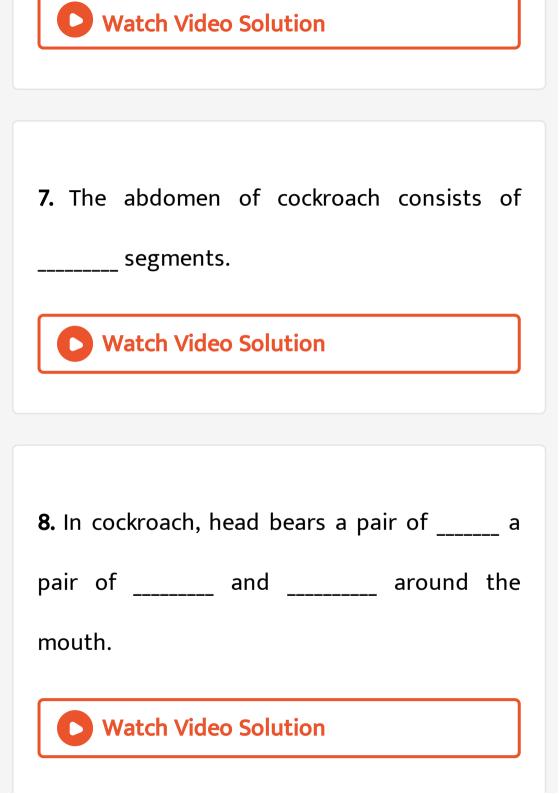
of

cockroach.



2. Oatheea is secreted by gland.
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3. The zoological name of common cockroach
is
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D True Or False Statement Questions

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

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2. The abdomen of cockroach is somewhat

flattened and consists of ten segments.

3. Malpighian tubules are the main excretory

organs of cockroach.

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4. The respiratory organ of coakroach is flame

cell .

5. The sexual dimorphism is not well marked in

cockroach.

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Very Short Answer Type Questions

1. Give the common name of Periplaneta americana.

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?

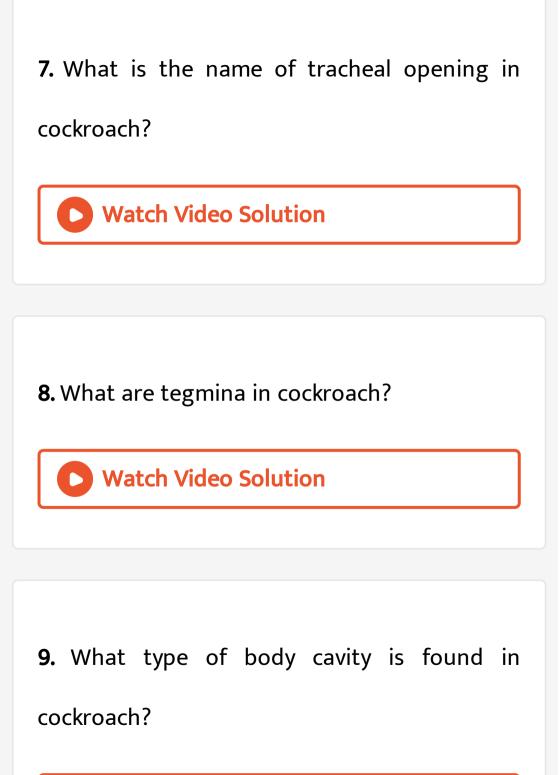
5. Name a nocturnal animal.

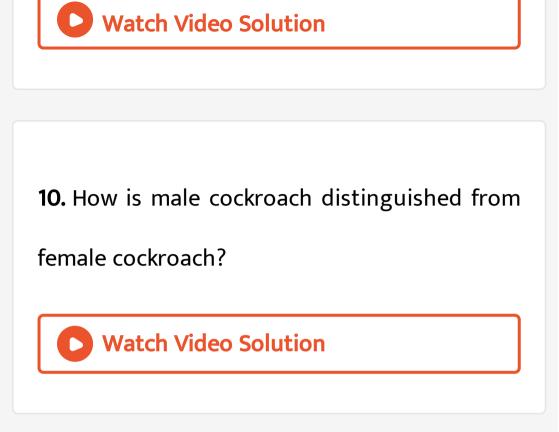


6. What is the position of ovaries in cockroach

?



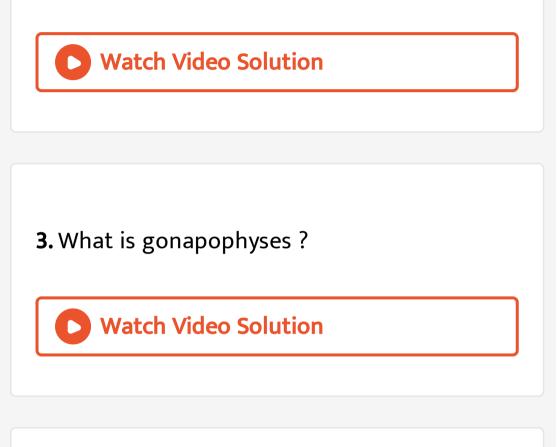




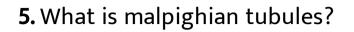
Short Answer Type Questions

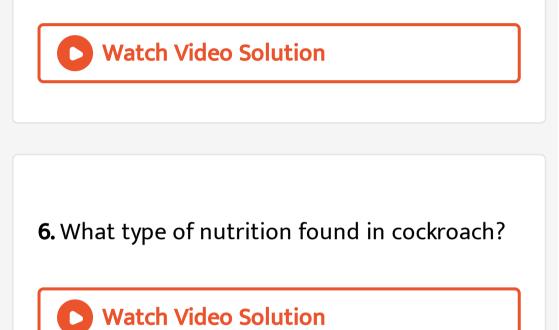
1. Name the mouth parts of a cockroach.

2. Describe labrum of a cockroach.



4. What is Malpighian tubules ?





7. State about the egestion of cockroach.

8. What are the types of haemocoel, found in

cockroach?



9. Mention the nature of heart of cockroach.

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10. What is haemolymph?





11. State the function of alary muscles in

cockroach.

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12. What is the function of distal secretory

part of the malphigian tubule ?

13. Briefly state about the mushroom gland of

cockroach.

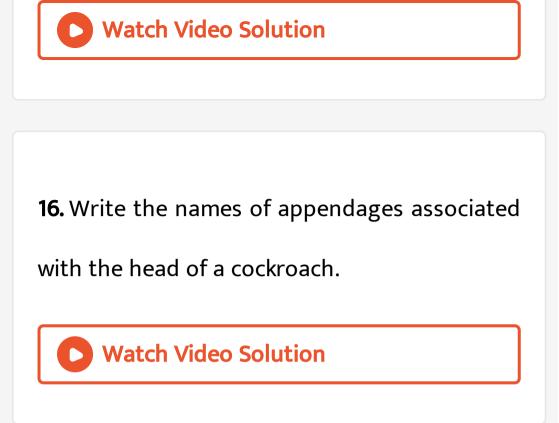


14. What are the parts of central nervous

system of cockroach ?

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



17. A tactile organ in cockroach is

A. Antennae

B. Ommatidia

C. Fanestrae

D. Anal cerci

Answer:



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:

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19. What are spermatheca ? Where they are

situated ? What is the function of

spermatheca?

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

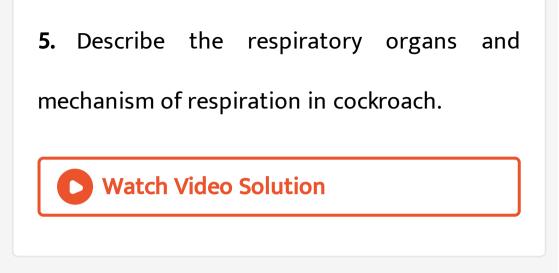
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2. Discuss the circulatory or nervous system of

cockroach.

Give an acount of reproductive organs of cockroach.
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4. Describe the abdomen of female cockroach. Differentiate between male and female



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:

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2. Mention the function of malpighian tubules

of cockroach.

3. Distinguish between prostomium and

peristomium.