

EXERCISE

1. Zoological name of cockroach is :
 (1) *Glossina palpalis*
 (2) *Periplaneta americana*
 (3) *Musca nebulo*
 (4) *Apis indica*
2. Diagnostic feature of insects is :
 (1) Segmented body
 (2) Chitin in body wall
 (3) Three pair of legs
 (4) One pair compound eyes
3. Which are the two common indian cockroaches ?
 (1) *Periplaneta americana* and *Blatta indica*
 (2) *Periplaneta indica* and *Blatta orientalis*
 (3) *Periplaneta orientalis* and *Blatta americana*
 (4) *Periplaneta americana* and *Blatta orientalis*
4. Characteristic of group insecta is :
 (1) Joined appendages
 (2) 3 pair of jointed legs
 (3) Chitinous exoskeleton
 (4) Compound eyes
5. Tergum is joined on the sides by :
 (1) Pleuron (2) Sternum
 (3) Alimentary canal (4) Muscles
6. Outer border of tergum bends downwards in cockroach and attaches with :
 (1) Muscles (2) Sternum
 (3) Pleura (4) Fat body cells
7. Mandibles of cockroach are :
 (1) Short with grinding teeth
 (2) Long and pointed
 (3) short without teeth
 (4) long and coiled
8. Head of cockroach according to its position is known as :
 (1) Hypopharynx
 (2) Hypocerebral
 (3) Hypognathus
 (4) Supragnathus
9. Tongue like structure in *Periplaneta* is :
 (1) Maxilla (2) Hypopharynx
 (3) Labium (4) Labrum
10. Which structure is known as lower lip of cockroach ?
 (1) Labrum (2) Labium
 (3) Mantum (4) Submentum
11. Wings of cockroach are mainly helpful in :
 (1) Egg laying
 (2) Preying
 (3) Finding the mate
 (4) Protecting against
12. *Periplaneta americana* differs from *Blatta orientalis* in :
 (1) Well developed wings
 (2) Wings absent
 (3) Only first pair wings developed
 (4) Second pair wing developed
13. Number of segments in cockroach leg :
 (1) 3 (2) 5 (3) 6 (4) 9
14. Undeveloped wings are found in :
 (1) Housefly (2) Cockroach
 (3) Mosquito (4) Blatta
15. Main character for the distinction between male and female cockroach :
 (1) Antennae (2) Mandibles
 (3) Anal cerci (4) Anal style
16. Anal styles are found in :
 (1) Housefly
 (2) Female cockroach
 (3) Male cockroach
 (4) Both male & female cockroach
17. Body segments are definite and well marked in :
 (1) *Hydra* (2) *Taenia*
 (3) Earth worm (4) Cockroach
18. Exoskeleton of cockroach is made up of :
 (1) Cartilage
 (2) Cuticle
 (3) Chitin
 (4) Amino acids
19. Cockroach and other insects have exoskeleton made up of :
 (1) Keratin (2) Spongin
 (3) Chitin (4) Cuticle

- 20.** The body cavity of cockroach is called :
 (1) Pseudocoel (2) Coelom
 (3) Hydrocoel (4) Haemocoel
- 21.** Which cells secretes wax located at the outer surface of body wall ?
 (1) Trophocytes (2) Oenocytes
 (3) Trichogen (4) Mycetocytes
- 22.** The fatbody of cockroach contains :
 (1) Oenocytes (2) mycetocytes
 (3) Trophocytes (4) All the above
- 23.** Hepatic caeca in cockroach are derived from :
 (1) Crop (2) Gizzard
 (3) Midgut (4) Proctodaeum
- 24.** Saliva of cockroach contains enzyme :
 (1) Lipase (2) Amylase
 (3) Pepsin (4) Trypsin
- 25.** Salivary glands of cockroach open on :
 (1) Maxilla (2) Hypopharynx
 (3) Labium (4) Labrum
- 26.** Mouth part of cockroach are suited for :
 (1) Piercing (2) Absorbing
 (3) Cutting & chewing (4) Drinking
- 27.** Cockroach is :
 (1) Omnivorous
 (2) Herbivorous
 (3) Carnivorous
 (4) Sanguivorous
- 28.** In cockroach food is crushed in which part :
 (1) Crop (2) Gizzard
 (3) Mesenteron (4) Oesophagus
- 29.** In which part of alimentary canal of cockroach is invagination of cuticle found ?
 (1) Anterior part
 (2) In midpart
 (3) In posterior part
 (4) Both in antherior and posterior part
- 30.** The inner layer of gizzard of cockroach is covered by:
 (1) By cuticle
 (2) By mucous membrane
 (3) By endoepithelium
 (4) By peritrophic membrane
- 31.** Maximum digestion takes place in which part of cockroach ?
 (1) In crop (2) In Gizzard
 (3) In mesenteron (4) In oesophagus
- 32.** Oxygen is carried to the tissues of cockroach by which organ :
 (1) Skin (2) Trachea
 (3) Plasma (4) Respiratory pigment
- 33.** Allary muscles in cockroach are associated or connected with :
 (1) Trachea (2) heart
 (3) legs (4) alimentary canal
- 34.** Number of pairs of spiracles in cockroach are :
 (1) 4 (2) 6 (3) 8 (4) 10
- 35.** In cockroach O₂ is carried to tissue by :
 (1) Haemoglobin and haemocyanin
 (2) Blood plasma
 (3) Tracheal tubes
 (4) Diffusion through integument
- 36.** Blood of cockroach does not contain haemoglobin because :
 (1) It respire through atmosphere
 (2) Respires through book lungs
 (3) It does not respire
 (4) It has some other means to carry oxygen direct into the tissues
- 37.** Give the name of blood vessel, which arises from first chamber of heart in cockroach :
 (1) Nephrocyte (2) Fenestrae
 (3) Ostia (4) Anterior aorta
- 38.** Number of chambers in the heart of cockroach :
 (1) 5 (2) 9 (3) 13 (4) 16
- 39.** Blood circulation in insects :
 (1) Flows in arteries and veins
 (2) With red blood corpuscles
 (3) Open type
 (4) Absent
- 40.** Heart of cockroach is :
 (1) Four chamberd
 (2) Vertral to gut
 (3) Longitudinal and beaded
 (4) Three chambered

COCKROACH**EXERCISE****41.** The colour of haemolymph of cockroach is :

- (1) Yellow (2) Red
(3) Green (4) Colourless

42. Physiologically the heart of cockroach is :

- (1) Neurogenic (2) myogenic
(3) Epigenic (4) Agenic

43. Main excretory product of cockroach is :

- (1) Urea (2) Ammonia
(3) Uric acid (4) Amino acid

44. Function of Malpighian tubules of cockroach :

- (1) Digestion (2) Respiration
(3) Excretion (4) Reproduction

45. Excretory organs of cockroach are :

- (1) Trachea (2) Kidney
(3) Nephridia (4) Malpighian tubules

46. The nerve cord of cockroach is :

- (1) Double, ventral and solid
(2) Double dorsal and hollow
(3) Single, dorsal and solid
(4) Single, ventral and hollow

47. Ommatidia are found in :

- (1) Eyes of birds (2) Eye of frog
(3) Eye of insects (4) Eye of rabbit

48. Structural units found in the compound eye of cockroach are called :

- (1) Rhabdom (2) Cone cells
(3) Ommatidia (4) Simple eye

49. What type of vision is found in cockroach ?

- (1) Mosaic (2) Superposition
(3) Binocular (4) None of them

50. Ommatidia are units in the eyes of :

- (1) Amphibians (2) Mammals
(3) Insects (4) Fishes

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	2	3	4	2	1	3	1	3	2	2	4	1	2	4	4
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	3	4	3	3	4	2	4	3	2	2	3	1	2	4	1
Que.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	1	2	2	4	3	4	4	3	3	3	4	1	3	3	4
Que.	46	47	48	49	50										
Ans.	1	3	3	1	3										