

6. PERIPLANETA AMERICANA COCKROACH

1SAQ + 1LAQ [4M + 8M] = 12 MARKS

FRUIT POINTS

1. Cockroach belongs to the phylum 'Arthropoda' and the class 'Insecta'.
2. 'Insecta' is the 'largest class of animals' in the 'Kingdom Animalia'.
3. The study of insects is called Entomology.
4. Cockroach exhibits all the characteristic features of the class Insecta.
5. Therefore Cockroach is an typical example for the study of insects.
6. **Cockroach has three body parts:** Head, Thorax and Abdomen .
7. Cockroach has three pairs of legs and two pairs of wings.
8. **Mouth Parts of Cockroach:** Labrum, Mandible, Hypopharynx, Maxillary palp, [IPE]
Galea, Lacinia, Palpifer, Stipes, Cardo, Submentum, Mentum, Palpiger, Prementum,
Glossa, Paraglossa, Labial palp.
9. **Digestive system of Cockroach:** (I) Alimentary canal (II) Digestive glands. [IPE]
I. Alimentary canal: (a) Foregut (b) Midgut (c) Hindgut
II. Digestive glands: (a) Salivary glands (b) Hepatic caecae (c) Glandular cells of mesenteron.
10. **Parts of Ommatidium:** Lens, Cone cell, Crystalline cone, Nerve fibers, [IPE]
Basement membrane, Retinal pigment sheath, Rhabdome, Retinular cell, sheath.
11. **Blood Circulatory System of Periplaneta:** (I) Haemocoel (II) Heart (III) Blood [IPE]
12. In male cockroaches, sperms are stored in **Seminal vesicles.** [NEET-2016]
13. The body cells in cockroach discharge their nitrogenous waste in the haemolymph mainly in the form of **potassium urate.** [NEET-2015]
14. The terga, sterna and pleura of cockroach body are joined by **arthrodial membrane.** [NEET-2015]
15. Development of **both fore wings and hind wings** are visible after the last moult of a cockroach nymph [NEET-2013]
16. **Sequence of organs of in the alimentary canal of cockroach starting from Mouth:** Pharynx → Oesophagus → Crop → Gizzard → Ileum → Colon → Rectum [NEET-2019]
17. In the common cockroach the **food is ground by mandibles and gizzard.** [2011 PMT]
18. Tegmina (Fore-Wings) in Cockroach arises from **mesothorax.** [NEET-2022]
19. Presence of **anal styles** in male cockroach is a characteristic feature of **sexual dimorphism in cockroach.** [NEET-2023]