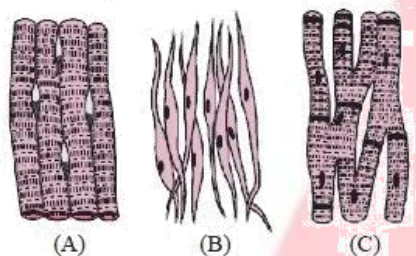


1. In both sexes of cockroach, a pair of jointed filamentous structures called anal cerci are present on: **(2024)**

- (a) 10th segment
- (b) 8th and 9th segment
- (c) 11th segment
- (d) 5th segment

2. Three types of muscles are given as a, b and c. Identify the correct matching pair along with their location in human body **(2024)**



Name of muscle/location

- (a) (a) Skeletal - Triceps
- (b) Smooth - Stomach
- (c) Cardiac - Heart.
- (b) (a) Skeletal - Biceps
- (b) Involuntary - Intestine
- (c) Smooth - Heart
- (c) (a) Involuntary - Nose tip
- (b) Skeletal - Bone
- (c) Cardiac - Heart.
- (d) (a) Smooth - Toes,
- (b) Skeletal - Legs
- (c) Cardiac - Heart.

3. Match List I with List II:

List I		List II	
A.	Unicellular glandular epithelium	(I)	Salivary glands
B.	Compound epithelium	(II)	Pancreas
C.	Multicellular glandular epithelium	(III)	Goblet cells of alimentary canal
D.	Endocrine glandular epithelium	(IV)	Moist surface of buccal cavity

Choose the correct answer from the options given below:

- (a) A-IV, B-III, C-I, D-II
- (b) A-III, B-IV, C-I, D-II
- (c) A-II, B-I, C-IV, D-III
- (d) A-II, B-I, C-III, D-IV

4. The Cockroach is : **(2023)**

- (a) Ammonotelic only
- (b) Uricotelic only
- (c) Ureotelic only
- (d) Ureotelic and Uricotelic

5. **Statement I:** In cockroach, the forewings are transparent and prothoracic in origin.

Statement II: In cockroach, the hind wings are opaque, leathery and mesothoracic in origin. **(2023)**

- (a) Statement I is correct but statement II is false
- (b) Statement I is incorrect but statement II is true
- (c) Both statement I and statement II are true
- (d) Both statement I and Statement II are false.

6. Match List-I with List-II. (2023)

List - I		List - II	
(A)	Columnar epithelium	(I)	Ducts of glands
(B)	Ciliated epithelium	(II)	Inner lining of stomach and intestine
(C)	Squamous epithelium	(III)	Inner lining of bronchioles
(D)	Cuboidal epithelium	(IV)	Endothelium

Choose the correct answer from the options given below:

- (a) A-III, B-II, C-I, D-IV
 (b) A-III, B-II, C-IV, D-I
 (c) A-II, B-III, C-I, D-IV
 (d) A-II, B-III, C-IV, D-I

7. **Statement I** : Ligaments are dense irregular tissue.

Statement II : Cartilage is dense regular tissue. (2023)

- (a) Statement I is correct but statement II is false
 (b) Statement I is incorrect but statement II is true
 (c) Both statement I and statement II are true
 (d) Both statement I and Statement II are false.

8. Match List I with List II. (2023)

List - I		List - II	
(A)	Mast cells	(I)	Ciliated epithelium
(B)	Inner surface of branchiole	(II)	Areolar connective tissue
(C)	Blood	(III)	Cuboidal epithelium
(D)	Tubular parts of nephron	(IV)	Specialised connective tissue

Choose the correct answer from the options give below:

- (a) A-II, B-III, C-I, D-IV
 (b) A-II, B-I, C-IV, D-III
 (c) A-III, B-IV, C-II, D-I
 (d) A-I, B-II, C-IV, D-III

9. In cockroach, excretion is brought about by – (2023)

- (A) Phallic gland (B) Ureose gland
 (C) Nephrocytes (D) Fat body
 (E) Collateral glands

Choose the correct answer from the options given below :

- (a) A, B and E only (b) B, C and D only
 (c) B and D only (d) A and E only

10. Which of the following is characteristic feature of cockroach regarding sexual dimorphism? (2023)

- (a) Presence of anal styles
 (b) Presence of sclerites
 (c) Presence of anal cerci
 (d) Dark brown body colour and anal cerci

11. Which of the following types of epithelium is present in the bronchioles and Fallopian tubes? (2022)

- (a) Stratified squamous epithelium
 (b) Simple squamous epithelium
 (c) Simple columnar epithelium
 (d) Ciliated epithelium

12. Match List-I with List-II regarding the organs of Cockroach: (2022)

List - I		List - I	
(A)	Crop	(I)	Grinding of food particles
(B)	Proventriculus	(II)	Secretion of digestive juice
(C)	Hepatic caecae	(III)	Removal of nitrogenous waste
(D)	Malpighian tubules	(IV)	Storage of food

Choose the correct answer from the options given below :

- (a) A-I, B-IV, C-III, D-II
 (b) A-IV, B-I, C-II, D-III
 (c) A-III, B-II, C-I, D-IV
 (d) A-II, B-IV, C-I, D-III

13. Choose the correct statements: (2022)

- (a) Bones support and protect softer Tissues and organs
 - (b) Weight bearing function is served by limb bones
 - (c) Ligament is the site of production of blood cells.
 - (d) Adipose tissue is specialised to store fats.
 - (e) Tendons attach one bone to another.
- Choose the most appropriate answer from the options given below:

- (a) (A), (B) and (E) only
- (b) (A), (B) and (D) only
- (c) (B), (C) and (E) only
- (d) (A), (C) and (D) only

14. Excretion in cockroach is performed by all, EXCEPT: (2022)

- (a) Hepatic caeca
- (b) Urecoase glands
- (c) Malpighian tubules
- (d) Fat body

15. In which of the following animals, digestive tract has additional chambers like crop and gizzard? (2022)

- (a) Corvus, Columba, Chameleon
- (b) Bufo, Balaenoptera, Bangarus
- (c) Catla, Columba, Crocodilus
- (d) Pavo, Psittacula, Corvus

16. Which of the following is not a connective tissue? (2022)

- (a) Blood
- (b) Adipose tissue
- (c) Cartilage
- (d) Neuroglia

17. Tegmina in cockroach, arises from (2022)

- (a) Prothorax
- (b) Mesothorax
- (c) Metathorax
- (d) Prothorax and Mesothorax

18. Match List - I with List - II (2022)

List - I		List - II	
(A)	Bronchioles	(I)	Dense Regular Connective Tissue

(B)	Goblet Cell	(II)	Losse Connective Tissue
(C)	Tendons	(III)	Glandular Tissue
(D)	Adipose Tissue	(IV)	Ciliated Epithelium

Choose the correct answer from the options given below:

- (a) A-IV, B-III, C-I, D-II
- (b) A-I, B-II, C-III, D-IV
- (c) A-II, B-I, C-IV, D-III
- (d) A-III, B-IV, C-II, D-I

19. Which of the following characteristic is incorrect with respect to cockroach? (2021)

- (a) Hypopharynx lies within the cavity enclosed by the mouth parts
- (b) In females, 7th-9th sterna together form a genital pouch
- (c) 10th abdominal segment in both sexes, bears a pair of anal cerci
- (d) A ring of gastric caeca is present at the junction of midgut and hind gut

20. Which of the following statement is wrongly represent the nature of smooth muscle? (2021)

- (a) They are involuntary muscles
- (b) Communication among the cells is performed by intercalated discs
- (c) These muscles are present in the wall of blood vessels
- (d) These muscle have no striations

21. Identify the types of cell junctions that help to stop the leakage of the substances across a tissue and facilitation of communication with neighbouring cells via rapid transfer of ions and molecules (2021)

- (a) Tight junctions and Gap junctions, respectively
- (b) Adhering junctions and Tight junctions, respectively
- (c) Adhering junctions and Gap junctions, respectively
- (d) Gap junctions and Adhering junctions, Respectively

22. Following are the statements about prostomium of earth-worm (2021)
 A. It serves as a covering for mouth
 B. It helps to open cracks in the soil into which it can crawl
 C. It is one of the sensory structures
 D. It is the first body segment
 Choose the correct answer from the options given below.
 (a) A, B and D are correct
 (b) A, B and C are correct
 (c) B and C are correct
 (d) A, B, C and D are correct
23. Cuboidal epithelium with brush border of microvilli is found in (2020)
 (a) Ducts of salivary glands
 (b) Proximal convoluted tubule of nephron
 (c) Eustachian tube
 (d) Lining of intestine
24. If the head of cockroach is removed, it may live for few days because (2020)
 (a) The cockroach does not have nervous system
 (b) The head holds a small proportion of a nervous system while the rest is situated along the ventral part of its body
 (c) The head holds a 1/3rd of a nervous system while the rest is situated along the dorsal part of its body
 (d) The supra-oesophageal ganglia of the cockroach are situated in ventral part of abdomen
25. Goblet cells of alimentary canal are modified from (2020)
 (a) Columnar epithelial cells
 (b) Chondrocytes
 (c) Compound epithelial cells
 (d) Squamous epithelial cells
26. In cockroach, identify the parts of the foregut in correct sequence (2020 Covid Re-NEET)
 (a) Mouth → Crop → Pharynx → Oesophagus → Gizzard
 (b) Mouth → Gizzard → Crop → Pharynx → Oesophagus
 (c) Mouth → Pharynx → Oesophagus →

Crop → Gizzard
 (d) Mouth → Oesophagus → Pharynx → Crop → Gizzard

27. Match the following columns with reference to cockroach and select the correct option (2020 Covid Re-NEET)

Column-I		Column-II	
1.	Grinding of the food particles	(i)	Hepatic caecae
2.	Secrete gastric juice	(ii)	10th segment
3.	10 pairs	(iii)	Proventriculus
4.	Anal cerci	(iv)	Spiracles
		(v)	Alary muscles

1 2 3 4

- (a) (iv) (iii) (v) (ii)
 (b) (i) (iv) (iii) (ii)
 (c) (ii) (iii) (i) (iv)
 (d) (iii) (i) (iv) (ii)
28. Select the incorrectly matched pair from following (2020 Covid Re-NEET)
 (a) Neurons - Nerve cells
 (b) Fibroblast - Areolar tissue
 (c) Osteocytes - Bone cells
 (d) Chondrocytes - Smooth muscle cells
29. Ciliated epithelial cells are required to move particles or mucus in a specific direction. In humans, these cells are mainly present in (2019)
 (a) Bile duct and Bronchioles
 (b) Fallopian tubes and Pancreatic duct
 (c) Eustachian tube and Salivary duct
 (d) Bronchioles and Fallopian tubes
30. Select the correct sequence of organs in the alimentary canal of cockroach starting from mouth (2019)
 (a) Pharynx → Oesophagus → Crop → Gizzard → Ileum → Colon → Rectum
 (b) Pharynx → Oesophagus → Gizzard → Crop → Ileum → Colon → Rectum
 (c) Pharynx → Oesophagus → Gizzard → Ileum → Crop → Colon → Rectum
 (d) Pharynx → Oesophagus → Ileum → Crop → Gizzard → Colon → Rectum

31. Which of the following feature is used to identify a male cockroach from a female cockroach? **(2018)**

- (a) Presence of a boat shaped sternum on the 9th abdominal segment
- (b) Presence of caudal styles
- (c) Forewings with darker tegmina
- (d) Presence of anal cerci

32. Select the correct route for the passage of sperms in male frogs **(2017)**

- (a) Testes → Bidder's canal → Kidney → Vasa efferentia → Urinogenital duct → Cloaca
- (b) Testes → Vasa efferentia → Kidney → Seminal Vesicle → Urinogenital duct → Cloaca
- (c) Testes → Vasa efferentia → Bidder's canal → Ureter → Cloaca
- (d) Testes → Vasa efferentia → Kidney → Bidder's canal → Urinogenital duct → Cloaca

33. Which of the following structures does not open into the genital chamber of female cockroaches? **(2017)**

- (a) A pair of collateral glands
- (b) A single median oviduct
- (c) Spermatheca
- (d) A pair of anal cerci

34. Select incorrect option with respect to features present in three animals **(2017)**

	Characters	Cockroach	Earthworm	Frog
(a)	Development	Direct	Indirect	Indirect
(b)	Blood vascular system	Open	Closed	Closed
(c)	Body surface	Dry	Moist	Moist
(d)	Eyes	Compound	Absent	Simple

35. Smooth muscles are **(2016 - II)**

- (a) Involuntary, cylindrical, striated
- (b) Voluntary, spindle-shaped, uninucleate
- (c) Involuntary, fusiform, non-striated
- (d) Voluntary, multinucleate, cylindrical

36. In male cockroaches, sperms are stored in **(2016 - II)**

- (a) Testes
- (b) Vas deferens
- (c) Seminal vesicles
- (d) Mushroom glands

37. Which of the following feature is not present in *Periplaneta americana*? **(2016 - I)**

- (a) Schizocoelom as body cavity
- (b) Indeterminate and radial cleavage during embryonic development
- (c) Exoskeleton composed of N-acetyl Glucosamine
- (d) Metamerically segmented body

38. Which type of tissue correctly matches with its location **(2016 - I)**

	Tissue	Location
(a)	Smooth muscle	Wall of intestine
(b)	Areolar tissue	Tendons
(c)	Transitional epithelium	Tip of nose
(d)	Cuboidal epithelium	Lining of stomach

39. The terga, sterna and pleura of cockroach body are joined by **(2015)**

- (a) Arthroial membrane
- (b) Cartilage
- (c) Cementing glue
- (d) Muscular tissue

40. The body cells in cockroach discharge their nitrogenous waste in the haemolymph mainly in the form of **(2015 Re)**

- (a) Potassium urate
- (b) Urea
- (c) Calcium carbonate
- (d) Ammonia

- 41.** Which of the following is not a function of the skeletal system? **(2015 Re)**
(a) Storage of minerals
(b) Production of body heat
(c) Locomotion
(d) Production of erythrocytes
- 42.** Function of the gap junction is to **(2015 Re)**
(a) Facilitate communication between adjoining cells by connecting the cytoplasm for rapid transfer of ions, small molecules and some large molecules
(b) Separate two cells from each other
(c) Stop substance from leaking across a tissue
(d) Performing cementing to keep neighboring cells together
- 43.** Choose the correctly matched pair **(2014)**
(a) Cartilage - Loose connective tissue
(b) Tendon - Specialised connective tissue
(c) Adipose tissue - Dense connective tissue
(d) Areolar tissue - Loose connective Tissue
- 44.** Choose the correctly matched pair **(2014)**
(a) Inner surface of bronchioles – Squamous epithelium
(b) Inner lining of salivary ducts - Ciliated epithelium
(c) Moist surface of buccal cavity - Glandular epithelium
(d) Tubular parts of nephrons - Cuboidal Epithelium
- 45.** Select the correct option with respect to cockroaches **(2013)**
(a) Malpighian tubules convert nitrogenous wastes into urea
(b) Males bear short anal styles not present in females
(c) Nervous system comprises of a dorsal nerve cord and ten pairs of ganglia
(d) Forewings are tegmina which are used in Flight
- 46.** What external changes are visible after the last moult of a cockroach nymph? **(2013)**
(a) Labium develops
(b) Mandibles become harder
(c) Anal cerci develop
(d) Both fore wings and hind wings Develop

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