

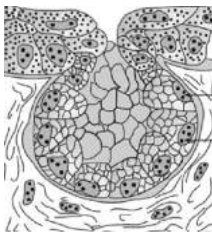
Section A

- Write the answer of the following questions. [Each carries 1 Mark] [20]
- In female cockroach's genital pouch, which of the following structures does not open ?
 (A) One central oviduct (B) Spermatheca
 (C) A pair of anal cercus (D) A pair of collateral glands
 - In which part of reproduction system of male cockroach are sperm cells stored ?
 (A) Testis (B) Vas deferens (C) Seminal vesicle (D) umbrellas gland
 - Which characteristic is not of Americana Periplaneta ?
 (A) Exoskeleton is made up of N-acetyl glucoamine.
 (B) It possesses segmented structure.
 (C) Coelom / body cavity is small coelom.
 (D) During embryo development, radial and irregular division occurs.
 - Which is the sound - sensory organ in cockroach ?
 (A) Caudal style (B) Antennae (C) Compound eyes (D) Anal cercus
 - How does air enter into animal body during respiration in Periplaneta Americana ?
 (A) O₂ spreads by diffusion from spiracle of lower thoracic region trachea, tracheal tubes cells.
 (B) O₂ enters in mouth, tracheal tubes and cells of trachea.
 (C) Oxygen is released in spiracle of lower thoracic region, tracheal tubes and cells of tracheal tubes.
 (D) In sub pharyngeal mouth, pharynx, tracheal tubes, tissues.
 - The intercellular matrix is negligible or absent in which of the following tissue ?
 (A) Connective tissue (B) Epithelial tissue (C) Muscular tissue (D) Cardiac tissue
 - Function of adipose tissue is :
 (A) Fat storing tissue (B) Helps in homeothermy
 (C) Act as shock absorber (D) All the above
 - The fluid connective tissue contains no
 (A) Fibre (B) Matrix (C) Cell (D) All the above
 - Which is not an example of tissue ?
 (A) Epidermis (B) A colony of protozoa
 (C) Grey matter of spinal chord (D) Blood
 - The junction between the axon of one neuron and the dendron of the next is called :
 (A) A joint (B) A synapse (C) Constant bridge (D) Junction point
 - In striated muscle contraction :
 (A) H-band is lengthened (B) H-band is obliterated
 (C) A-band decreases in length (D) Z-line moves away from A-band.
 - Neuroglia cells differs from neurons in having :
 (A) No Nissile's granules (B) No radiating processes
 (C) No cyton (D) No nucleus
 - Gizzard in *pheretima* is an organ

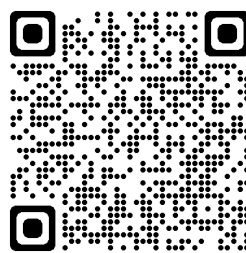
- (A) secretes slime
(C) for secretion
- (B) for absorption of digested food
(D) for crushing food
14. Frog belongs to Amphibia because
(A) They take shelter in deep burrows
(C) Can live in water and on land
- (B) Lungs are present
(D) Its tadpole are aquatic
15. In frog fertilization is external and takes place.
(A) in water
(C) in sand
- (B) on tree
(D) on lotus flower in water

16. Which of the following structures does the given figure represent ?

- (A) Multicellular gland
(B) Compound epithelium
(C) Squamous epithelium
(D) Unicellular gland



17. Which of the following represents the intercellular matrix of cartilage ?
(A) Solid and pliable
(C) Solid and non-pliable
- (B) Hard and non-pliable
(D) Hard and pliable
18. A : Columnar epithelium lining the intestinal mucosa appears to have a brush like appearance.
R : A large number of microvilli are present on brush bordered columnar epithelium.
(A) A and R both are correct and R is correct explanation of A.
(B) A and R are correct but R is not correct explanation of A.
(C) A is correct and R is false.
(D) Both A and R are false.
19. A : Histamine is related with allergic and inflammtory reactions.
R : Histamine is a vasodialator
(A) A and R both are correct and R is correct explanation of A.
(B) A and R are correct but R is not correct explanation of A.
(C) A is correct and R is false.
(D) Both A and R are false.
20. Select the correct sequence of organs in the alimentary canal of cockroach starting from mouth :
(A) Pharynx → Oesophagus → Ileum → Crop → Gizzard → Colon → Rectum
(B) Pharynx → Oesophagus → Crop → Gizzard → Ileum → Colon → Rectum
(C) Pharynx → Oesophagus → Gizzard → Crop → Ileum → Colon → Rectum
(D) Pharynx → Oesophagus → Gizzard → Ileum → Crop → Colon → Rectum



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