

Chapter:7 Structural Organisation in Animals

True and False			
Q.No	Question	Answer True/ False	Typology
Q.1	Hydra is a unicellular organism.	False	Knowledge
Q.2	The cuboidal epithelium is composed of more than two layer of cube-like cells.	False	Knowledge
Q.3	Adipose tissue is a type of dense connective tissue.	False	Knowledge
Q.4	Cardiac muscle tissue is present only in the heart and it has structural similarity with smooth muscle.	False	Knowledge/Analytical
Q.5	Cockroach is a unisexual organism with compound eyes.	True	Knowledge
Q.6	Like humans, cockroach also has blood like functioning semi-fluid material which is called haemolymph	True	Analytical
Q.7	Cockroach is Uricotelic as it excretes nitrogenous waste in the form of Uric acid.	True	Knowledge
Q.8	Ommatidium is unit of compound eye in cockroach and the eye generates mosaic vision.	True	Knowledge
Q.9	Development of <i>P.americana</i> is paurometabolous, meaning there is development through nymphal stage.	True	Knowledge
Q.10	If head of cockroach is cut off, it will still live for as long as one week due to its head holding bit of nervous system compared to rest of the body.	True	Analytical
Q.11	Blood vascular system of cockroach is open type as blood vessels are poorly developed and visceral organ located in the haemocoel.	True	Analytical
Q.12	Neurons, the unit of neural system are non-excitabile cells.	False	Knowledge
Q.13	Mucus is secreted by Endocrine glands.	False	Analytical
Q.14	Smooth muscle fibres taper at both ends and shows striations.	False	Analytical
Q.15	Blood is a type of connective tissue as it connects various tissue/organs in the animal body.	True	Understanding
Q.16	Chondrocytes forms bone in cockroaches.	False	Knowledge
Q.17	Goblet cell is a type of glandular cell which secretes mucus.	True	Knowledge
Q.18	Inner surface of the bronchioles & fallopian tubes are ciliated as they facilitate directional movement of	True	Knowledge

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	particles.		
Q.19	Mature erythrocytes of mammals are nucleated.	False	Knowledge
Q.20	The muscles of biceps & triceps are involuntary muscles.	False	Knowledge

Multiple Choice Questions

Q.No	Question	Answer	Typology
Q.1	The tissue which is protective in nature and has a non cellular basement membrane (A)connective (B) epithelial (C) muscle (D)neural	(B)	Understanding
Q.2	Adipose tissue is an example of _____ tissue. (A) connective (B) epithelial (C) muscle (D) neural	(A)	Knowledge
Q.3	Cartilage belongs to (A) Specialized connective tissue (B) Neural tissue (C) Muscle tissue (D) Epithelial tissue	(A)	Understanding
Q.4	A tissue that has a hard & non-pliable ground substance, rich in calcium salts and collagen fibres is (A) epithelial tissue (B) adipose tissue (C) bone tissue (D) cartilage tissue	(C)	Analytical
Q.5	A tissue which is fibrous with tapered end, non-striated and involuntary in nature is - (A) tendon (B) smooth muscle (C) skeletal muscle (D) cardiac muscle	(B)	Understanding

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Q.6	The unit of the neural system is - (A) soma (B) axon (C) neuron (D) dendrites	(C)	Knowledge
Q.7	Organism that belong to phylum Arthropoda is (A) frog (B) earthworm (C) <i>C.elegance</i> (D) cockroach	(D)	Analytical
Q.8	In cockroach tergites are arranged on (A) dorsal side (B) ventral side (C) lateral side (D) absent	(A)	Understanding
Q.9	Part of mouth that works as tongue in cockroach is (A) labrum (B) mandible (C) maxilla (D) hypopharynx	(D)	Knowledge
Q.10	Cockroach head region is formed by the fusion of (A) 6 segments (B) 8 segments (C) 7 segments (D) 5 segments	(A)	Knowledge
Q.11	Excretory organ of cockroach is - (A) gizzard (B) alimentary canal (C) malphigian tubules (D) oesophagus	(C)	Understanding
Q.12	In cockroach, testes are located on each lateral side of the (A) 6 th -7 th abdominal segment. (B) 4 th – 6 th abdominal segment. (C) 3 rd – 4 th abdominal segment. (D) 5 th – 6 th abdominal segment.	(B)	Knowledge
Q.13	In cockroach, the female reproductive system consists of two large ovaries that are locate laterally in the (A) 6 th - 7 th abdominal segment. (B) 4 th – 6 th abdominal segment. (C) 2 nd – 6 th abdominal segment. (D) 3 rd – 6 th abdominal segment.	(C)	Knowledge

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Q.14	A pair of spermatheca in cockroach is present in (A) 4 th abdominal segment of the male (B) 5 th abdominal segment of the female (C) 6 th abdominal segment of the female (D) 6 th abdominal segment of the male	(C)	Knowledge
Q.15	Number of fertilized eggs present in each oothecae of cockroach are (A) 10-12 (B) 20 (C) 14-16 (D) 18	(C)	Knowledge
Q.16	cockroach are (A) dioecious & possess compound eyes (B) monoecious & uricotelic (C) Posses open blood vascular system & nephridia (D) nocturnal and monoecious	(A)	Analytical
Q.17	Number of spiracles present in the cockroach are - (A) 8 pairs (B) 2 pairs (C) 10 pairs (D) 6 pairs	(C)	Knowledge
Q.18	The volume of neuroglia cells in the neural tissue of human body is (A) 100% (B) more than half (C) less than half (D) 20%	(B)	Knowledge
Q.19	Site of gaseous exchange in cockroaches is - (A) trachea (B) sinuses (C) tracheoles (D) spiracles	(C)	Understanding
Q.20	The property of the haemolymph in cockroach - (A) it is colorless (B) it has RBCs (C) it has chondrocytes (D) it has T-lymphocytes	(A)	Knowledge

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Fill in the Blanks

Q.No	Question	Answer	Typology
Q.1	The alimentary canal system in cockroach is divided in foregut, midgut and _____ .	hindgut	Understanding
Q.2	In cockroach, _____ helps in grinding the food particles.	gizzard	Knowledge
Q.3	Hindgut of cockroach is differentiated into _____, colon and rectum.	ileum	Understanding
Q.4	The first pair of wings in cockroach arise from _____.	mesothorax	Knowledge
Q.5	The fibrous cells of loose connective tissue which secrete modified polysaccharides are called _____.	Collagen	Knowledge
Q.6	In cockroach, the nymph grows by _____ process & about _____ times to reach the adult form.	moulting, 13	Knowledge
Q.7	Left phallomere of external genitalia of cockroach consists of Titillator and _____	pseudopenis	Knowledge
Q.8	In animals, the nutrients are stored as _____ in _____ tissue.	fats, adipose tissue	Knowledge
Q.9	Secretions of endocrine glands called _____ are poured directly in the blood vessels.	hormones	Knowledge
Q.10	The major tissue type that is known for its special function of linking and supporting other tissues / organs of the body is _____ tissue.	connective	Understanding
Q.11	Fibres and fibroblast are _____ packed in the dense connective tissue.	compact	Understanding
Q.12	Thorax of a cockroach is divided into prothorax, mesothorax and _____	metathorax	Knowledge
Q.13	Anal style are present in a _____ cockroach	male	Knowledge
Q.14	The fertilized eggs of cockroach are encased in a capsule called	oothecae	Knowledge
Q.15	In male cockroach, the sperms are stored in the.....and glued together in the forms of bundles called.....	seminal vesicle , spermatophore	Knowledge

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Match the Following

Q.No	Question		Answer		Typology
Q.1	Column A a. open blood vascular system b. three chambered heart	Column B i) earthworm ii) fish iii) frog iv) cockroach	Column A a. b.	Column B iv) iii)	Evaluating & Analysis
Q.2	Column A a. malphigian tubule and nephrocyte b. kidney	Column B i) frog ii) hydra iii) cockroach iv) earthworm	Column A a. b.	Column B iii) i)	Evaluating & Analysis
Q.3	Column A a. junction of the foregut and midgut b. junction of midgut and hindgut	Column B i) malphigian tubule ii) antenna iii) hepatic caeca iv) fat body	Column A a. b.	Column B iii) i)	Evaluating & Analysis
Q.4	Column A a. forewings b. gastric caeca	Column B i) metathorax region ii) tegmina iii) midgut and hindgut junction iv) hepatic caeca	Column A a. b.	Column B ii) iv)	Evaluating & Analysis
Q.5	Column A a. male cockroach b. female cockroach	Column B i) clitellum ii) nephridia iii) spermatheca iv) anal styles	Column A a. b.	Column B iv) iii)	Evaluating & Analysis

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Q.6	Column A a. epithelium tight junction b. epithelium gap junction	Column B i) facilitates communication ii) stops leakage iii) maintains plasticity iv) food storage	Column A a. b.	Column B ii) i)	Evaluating & Analysis
Q.7	Column A a. loose connective tissue b. dense connective tissue	Column B i) blood ii) adipose tissue iii) muscle iv) bone	Column A a. b.	Column B ii) iv)	Evaluating & Analysis
Q.8	Column A a. multi-nucleated cell b. osteocyte	Column B i) glandular cell ii) bone cell iii) striated muscle iv) epithelial cell	Column A a. b.	Column B iii) ii)	Evaluating & Analysis
Q.9	Column A a. cockroach's neck b. cockroach's hindwings	Column B i) mesothorax ii) metathorax iii) prothorax iv) hypothorax	Column A a. b.	Column B iii) ii)	Evaluating & Analysis
Q.10	Column A a. ciliated epithelium b. squamous epithelium	Column B i) stomach wall ii) salivary gland iii) inner wall of the blood vessel iv) fallopian tube	Column A a. b.	Column B iv) iii)	Evaluating & Analysis