

NEET MCQ QUESTIONS
CHAPTER-7-STRUCTURAL ORGANISATION IN ANIMALS

- 1 Which type of tissue forms the inner of a blood vessel?
 - a) Epithelial
 - b) Connective
 - c) Muscle
 - d) Nervous
- 2 In which of the following, the plasma membrane of the epithelial lining is Modified in to microvilli?
 - a) Tubules of the testis
 - b) Vagina
 - c) Intestine
 - d) Urinary tract
- 3 The actively dividing layer of columnar cells in the epidermis of man is called as the
 - a) Stratum granulosum
 - b) Stratum lucidum
 - c) Stratum Malpighi
 - d) Stratum corneum
- 4 The outermost layer of skin called stratum corneum is composed of
 - a) Completely dead and keratinised cells
 - b) Living and most actively dividing cells
 - c) Most of dead keratinized cells but some living cells
 - d) Living keratinized cells
- 5 Which type of tissue forms glands?
 - a) Epithelial
 - b) Connective
 - c) Nervous
 - d) Muscle
- 6 Mostly the mammary glands are modified
 - a) Sebaceous glands
 - b) Apocrine glands
 - c) Cutaneous glands
 - d) Holocrine glands
- 7 Ligaments are made up of
 - a) White fibres and some yellow elastic fibres
 - b) White fibres only
 - c) Yellow fibres only
 - d) Yellow fibres and muscle fibres
- 8 The bone of a mammal contains Haversian canals, which are connected by transverse canals known as
 - a) Semicircular canals
 - b) Inguinal canals
 - c) Volkmann' canal
 - d) Bidder' canal
- 9 Cardiac muscle is made up of branched fibres that are
 - a) Non-striated and under voluntary control
 - b) Striated and not under voluntary control
 - c) Non-striated and not under voluntary control
 - d) Striated and under voluntary control
- 10 The efferent process of neuron is known as
 - a) Dendron

- b) Axon
 - c) Cyton
 - d) dendrite
- 11 Schwann cells and nodes of Ranvier are found in
- a) neurons
 - b) chondroblasts
 - c) osteoblasts
 - d) gland cells
- 12 The plasma protein, which maintains the osmotic pressure of blood is
- a) albumin
 - b) globulin
 - c) fibrinogen
 - d) prothrombin
- 13 A bipolar neuron has
- a) 1 dendron and 1 axon
 - b) 2 axons and 2 dendrites
 - c) 2 dendrites and 1 axon
 - d) 2 axons and 1 dendrite
- 14 Mast cells of connective tissue contain
- a) Heparin and calcitonin
 - b) Serotonin and melanin
 - c) Vasopressin and relaxin
 - d) Heparin and histamine
- 15 Metamerism is characteristic feature of phylum
- a) Porifera
 - b) Platyhelminthes
 - c) Annelida
 - d) Mollusca
- 16 Blood is red but there are no red blood cells in
- a) earthworm and leeches
 - b) leeches
 - c) cockroach
 - d) bedbug
- 17 Which of the following statements is true for *pheretima*?
- a) it is a dioecious animal with distinct sexual dimorphism
 - b) in it copulation occurs in night in burrow during rainy season
 - c) it can copulate throughout the year whenever it rains
 - d) it cannot travel both backwards and forwards
- 18 In earthworm, setae are absent from
- a) clitellum, first and last segments
 - b) clitellum
 - c) first segment
 - d) clitellum and last segment
- Abdomen of cockroach has segments
- 19
- a) 6
 - b) 10
 - c) 11
 - d) 12
- 20 First wing in cockroach is a hard leathery structure and is called
- a) Elytron attached to prothorax

- b) Tegmina attached to prothorax
 - c) Elytron attached to mesothorax
 - d) Tegmina attached to mesothorax
- 21 Which of the 2 parts in cockroach are fundamentally similar in structure?
- a) Anal styles and labrum
 - b) Maxillae and legs
 - c) Mandibles and antennae
 - d) Wings and cerci
- 22 In cockroach lower lip or labium refers to
- a) Mentum
 - b) Submentum
 - c) First maxilla
 - d) Second maxilla
- 23 Number of Malpighian tubules present in cockroach is
- a) 60-70
 - b) 80-90
 - c) 100-150
 - d) 200-250
- 24 Three chambered heart of frog is not as proficient as four chambered human heart because
- a) Ventricle does not pump blood properly
 - b) It does not hold enough blood
 - c) Heart muscles are not strong
 - d) Oxygenated and deoxygenated bloods mix up
- 25 Chloragogen cells of *pheretima* are specialized for
- a) Nutrition
 - b) Reproduction
 - c) Excretion
 - d) Respiration
- 26 Mating in earthworm occurs during
- a) Night in rainy season
 - b) Night in water
 - c) Night in summer season
 - d) Day in rainy season
- 27 Structure present in man but absent in frog is
- a) Salivary glands
 - b) Pancreas
 - c) Adrenal glands
 - d) Gall bladder
- 28 The glands present in skin of frog are
- a) Mucous and poisonous
 - b) Sweat and mammary
 - c) Sweat and sebaceous
 - d) Sweat and mucous
- 29 In frog, jelly around the eggs is deposited
- a) In water after fertilization
 - b) In water during fertilization
 - c) In the oviduct
 - d) In the ovary
- 30 The heart in cockroach is longitudinal beaded and there are
- a) 2 chambers in thorax and 11 in abdomen
 - b) 3 chambers in thorax and 10 in abdomen
 - c) 2 chambers in thorax and 10 in abdomen

- d) 3 chambers in thorax and 9 in abdomen
- 31 The blood of cockroach is colorless because
- There is no respiratory pigment
 - Circulatory system is open type
 - Circulatory system is closed type
 - There are no salts in blood
- 32 Cockroach blood does not contain respiratory pigments, it means that
- Cockroach does not respire
 - Cockroach respire anaerobically
 - Oxygen reaches tissue through tracheoles
 - Oxygen passes to all the tissues through diffusion
- 33 How many pairs of spiracles are found in cockroach
- 3 pairs in thorax and 10 pairs in abdomen
 - 2 pairs in thorax and 8 pairs in abdomen
 - 2 pairs in thorax and 6 pairs in abdomen
 - 1 pair in thorax and 7 pairs in abdomen
- 34 Earthworms are called 'friends of farmers' because
- Their burrows make the soil loose
 - They are used as fish meal
 - They kill the birds due to biomagnification of chlorinated hydrocarbons
 - They make the soil porous, leave their castings and organic debris in the soil
- 35 Movement of coelomic fluid helps in locomotion of
- Hydra
 - Frog
 - Starfish
 - Earthworm
- 36 In earthworm, septa are absent in
- first 4 segments
 - 5/6,10/11
 - 5/6,7/8
 - 6/7,7/8
- 37 In earthworm oxygen carrying haemoglobin occurs in
- Plasma
 - Corpuscles
 - Both corpuscles and plasma
 - The statement is wrong
- 38 The region of earthworm, which is forest of nephridia
- Clitellar region
 - Pharyngeal region
 - Typhlosolar region
 - Intestinal region
- 39 Which one of the following is an oxygen carrying blood pigment of earthworm?
- Haemocyanin

- b) Haemoglobin
- c) Haemoerythrin
- d) Chlorocruorin

- 40 In frog, two phalanges occur in
- a) pollex
 - b) hallux
 - c) third finger
 - d) third toe
- 41 Chloragogen cells are
- a) respiratory only
 - b) circulatory only
 - c) excretory only
 - d) polyfunctional
- 42 Which is characteristic of common cockroach species?
- a) 13-chambered heart
 - b) Reduced wings
 - c) Cocoon formation
 - d) Segmented body
- 43 Malpighian tubules of cockroach are found at the junction of
- a) Crop and proventriculous
 - b) Stomodaeum and proctodaeum
 - c) Mesenteron and proctodaeum
 - d) Proctodaeum and stomodaeum
- 44 Collateral glands of cockroach help in
- a) Formation of ootheca
 - b) Formation of oothecal chamber
 - c) Copulation
 - d) fertilization
- 45 Blood glands of *pheretima* occur in segments
- a) 1,2 and 3
 - b) 3,4 and 5
 - c) 4,5 and 6
 - d) 10,11 and 12
- 46 Pharyngeal nephridia of earthworm occur in segments
- a) 3,4 and 5
 - b) 4,5 and 6
 - c) 5,6 and 7
 - d) 6,1 and 8
- 47 Open circulatory system is not of physiological hindrance in cockroach because
- a) Heart is simple but chambered
 - b) Blood is colorless
 - c) Excretion occurs through Malpighian tubules
 - d) Circulatory and respiratory systems are not connected
- 48 Number of eggs contained in an ootheca of cockroach is
- a) 8
 - b) 16
 - c) 32
 - d) 4
- 49 Pericardial space in cockroach is regularly altered by muscles
- a) Ciliary

- b) Alary
- c) Circular
- d) Longitudinal

50 What type of metamorphosis occurs in cockroach?

- a) Holometabolous
- b) Hemimetabolous
- c) Paurometabolous
- d) Ametabolous

ANSWER KEY

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

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