

STRUCTURAL ORGANIZATION IN ANIMALS

01. Compound tissue is defined as

- 1) Similar types of cells held together by connective tissue
- 2) Different types of cells which are different in structure and function
- 3) Different types of cells performing one function
- 4) Similar cells at different regions performing many functions.

Ans:3

02. Epidermis of skin of vertebrates comprises

- 1) Simple epithelium
- 2) Stratified epithelium
- 3) Transitional epithelium
- 4) Columnar epithelium

Ans:2

03. Tesselated epithelium is found in

- 1) Lining of intestine
- 2) Lining of blood vessel
- 3) Seminiferous tubule
- 4) Uriniferous tubules

Ans:2

04. Areolar tissue connects-

- 1) The skin with muscles
- 2) Muscles to muscles
- 3) Bone to bone
- 4) Bone to muscles

Ans:1

05. Tendon is made up of-

- 1) Yellow fibrous connective tissue
- 2) Adipose tissue
- 3) Modified white fibrous tissue
- 4) Areolar tissue

Ans:3

06. Fibres present in connective tissue are

- 1) Reticular
- 2) Elastic
- 3) Collagen
- 4) All the above

Ans:4

07. Mast cells occur in

- 1) Areolar tissue
- 2) Adipose tissue
- 3) White fibrous tissue
- 4) Yellow fibrous tissue

Ans:1

08. A tissue in which matrix is the source of structural and functional performance is

- 1) Muscular
- 2) Epithelial
- 3) Connective
- 4) Nervous

Ans:3

09. Perichondrium covers the -

- 1) Bone
- 2) Cartilage
- 3) Decalcified bone
- 4) Dried bone

Ans:2

10. 60% inorganic components are present in

- 1) Cartilage
- 2) Bone
- 3) Connective tissue
- 4) None of these.

Ans:2

11. Blood is a -

- 1) Epithelial tissue
- 2) Muscular tissue
- 3) Connective tissue
- 4) Supportive tissue

Ans:3

3) have cartilaginous ring

4) Have non collapsible wall

Ans:4

34. The total number of ganglia present on the nerve cord of cockroach is

1) 6

2) 9

3) 10

4) 11

Ans:2

35. Basic difference between *Periplaneta americana* and *Blattella orientalis* is in

1) Body size

2) Wings length

3) Length of antenna

4) life history

Ans:2

36. Male and female cockroaches can be distinguished externally through

1) Anal styles in male

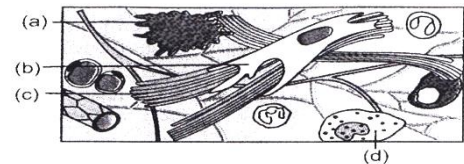
2) Anal cerci in female

3) Anal style and antennae in female

4) Both 2) & 3)

Ans:1

37. Given below is the diagrammatic sketch of a certain type of connective tissue. Identify the parts labelled a, b, c, and d and select the right option about them.



	a	b	c	d
1)	Macrophage	fibroblast	Collagen Fibres	Mast cell
2)	Mast Cell	Macrophage	Fibroblast	Collagen Fibres
3)	Macrophage	Collagen Fibres	Fibroblast	Mast Cell
4)	Mast cell	Collagen Fibres	Fibroblast	Macrophage

Ans:1

38. Presence of gills in tadpole of the frog indicates that

- 1) Fishes were amphibious in the past.
- 2) Fishes evolved from frog-like ancestors
- 3) Frogs will have gills in future.
- 4) Frogs evolved from gilled ancestors.

Ans:4

39. In frog, the heart has

- 1) one auricle and two ventricles.
- 2) one auricle and one ventricle
- 3) two auricles and one ventricle
- 4) two auricles and two ventricles.

Ans:3

40. Which one of the following is without a cloaca?

- A) Dog fish
- B) Hen
- C) Frog
- D) Rabbit.

Ans:4

- 41 Skin is a
(a) Cuboidal epithelium (b) Columnar epithelium (c) Pseudostratified epithelium (d) Stratified epithelium

Ans:4

- 42 The abdomen of adult cockroaches has segments
(a) 4 (b) 6 (c) 8 (d) 10

Ans:4

- 43 Steriocilia occur in
(a) Columnar epithelium of stomach (c) Pseudostratified columnar epithelium of trachea
(b) Pseudostratified columnar epithelium of epididymis (d) Stratified columnar epithelium of pharynx

Ans:2

- 44 Which statement is correct?
(a) Mast cells and basophils secrete histamine and heparin
(b) Mast cells are long lived, basophils are short lived
(c) Mast cells are smaller than basophils with a bilobed nucleus
(d) Mast cells are relatively sessile, basophils are mobile

Ans:1

- 45 Which of these is not found in connective tissue?
(a) Collagen fibres (b) Basement membrane (c) Hyaluronic acid (d) Fluid

Ans:3

- 46 Hyaline Cartilage does not have
(a) Fibres (b) Lacunae (c) Blood capillaries (d) Cells

Ans:3

- 47 The ciliated columnar epithelial cells in humans are known to occur in
(a) Bile duct and oesophagus (c) Eustachian tube and stomach lining
(b) Fallopian tubes and urethra (d) Bronchioles and Fallopian tubes

Ans:4

- 48 The cockroach crushes food with the help of its
(a) Labium (b) First maxillae (c) Mandibles (d) Antennae

Ans:3

- 49 The supportive skeletal structures in the human external ears and in the nose tip are examples of
- (a) Ligament (b) Areolar tissue (c) Bone (d) Cartilage

Ans:4

- 50 Read the following statements and choose the correct options
- (a) Blood cells secrete fibres of structural proteins called collagen or elastin
(b) Neurological cells protect and support the nephrons
(c) Osteocytes are present in spaces called lacunae
(d) smooth muscle fibres are bundled together in parallel fashion

Ans:3

Test paper- Structural organization in animals

- Histamine secreting cells are found in
 - Connective tissues
 - Nervous tissue
 - Lungs
 - Muscular tissue
- The layer of actively dividing cells of skin is termed as
 - Stratum compactum
 - Stratum corneum
 - Stratum lucidum
 - Stratum malpighii/ Stratum germinativum
- Characteristic of simple epithelium is that they
 - are arranged indiscriminately
 - continue to divide and help in organ function
 - Make a definite layer
 - None of above
- Collagen is
 - lipid
 - Fibrous protein
 - Globular protein
 - Carbohydrate
- Aerolar connective tissue joins
 - Haemoglobin
 - Hirudin
 - Myoglobin
 - Histamine
- Lamina propria is connected with
 - Acini
 - Liver
 - Graffian follicle
 - Intenstine
- Haversian canals occur in
 - Humerus
 - Pubis
 - Clavicle
 - Scapula
- Hair present in the skin are
 - Epidermal in origin and made of dead cells
 - Epidermal in origin and made of living cells
 - Dermal in origin and made of living cells
 - Dermal in origin and made of dead cells
- Basement membrane is made up of
 - No cell product of epithelial cell
 - Epidermal cell only
 - endodermal cell
 - Both b and c
- Characteristic of smooth muscle fibres are
 - Spindle shaped, unbranched, nonstriated, uninucleate and involuntary
 - Spindle shaped, unbranched, nonstriated, multinucleate and involuntary
 - Cylindrical, unbranched, striated, multinucleate and voluntary
 - Cylindrical, unbranched, striated, uninucleate and voluntary
- Lymph differs from blood in possessing
 - only WBC
 - more RBC and WBC
 - more RBC and few WBC
 - more WBC and few RBC.

12. Mineral found in red pigment of vertebrate blood is
(a) magnesium (b) iron (c) calcium (d) copper.
13. Component of blood responsible for producing antibodies is
(a) thrombocytes (b) monocytes (c) erythrocytes (d) lymphocytes.
14. Afferent nerve fibre carries impulses from
(a) effector to central nervous system (b) receptor to central nervous system
(c) central nervous system to muscles (d) central nervous system to receptors.
15. Formation of cartilage bones involves
(a) deposition of bony matter by osteoblasts and resorption by chondroclasts
(b) deposition of bony matter by osteoclasts
(c) deposition of bony matter by osteoclasts only
(d) deposition of bony matter by osteoblasts only.
16. An epithelial tissue which has thin flat cells, arranged edge to edge so as to appear like closely packed tiles, is found to be present at
(a) outer surface of ovary (b) inner lining of fallopian tube
(c) inner lining of stomach (d) inner lining of cheeks.
17. The life span of human WBC is approximately
(a) between 2 to 3 months (b) more than 4 months
(c) less than 10 days (d) between 20 to 30 days.
18. Stratum germinativum is an example of which kind of epithelium?
(a) columnar (b) squamous (c) cuboidal (d) ciliated.
19. Which of the following is agranulocyte?
(a) basophil (b) neutrophil (c) lymphocyte (d) eosinophil.
20. Protein present in cartilage is
(a) cartilagin (b) ossein (c) chondrin (d) none of these.
21. Which of the following is not the main function of lymph glands?
(a) forming RBCs (b) destroying bacteria (c) forming WBCs (d) forming antibodies.
22. In mammals, histamine is secreted by
(a) lymphocytes (b) mast cells (c) fibroblasts (d) histiocytes.
23. Tendon is made up of
(a) yellow fibrous connective tissue (b) modified white fibrous tissue
(c) areolar tissue (d) adipose tissue.

24. Ligament is a/an
(a) inelastic white fibrous tissue (b) modified white fibrous tissue
(c) **modified yellow elastic fibrous tissue** (d) none of the above.
25. The joint between atlas and axis is called
(a) angular joint (b) hinge joint (c) **pivot joint** (d) saddle joint.
26. Which statement is true for WBC?
(a) non-nucleated (b) in deficiency, cancer is caused
(c) manufactured in thymus (d) **can squeeze through blood capillaries.**
27. Which pair is correct?
(a) **sweat = temperature regulation** (b) saliva = sense of food taste
(c) sebum = sexual attraction (d) humerus = hind leg.
28. Characteristic of simple epithelium is that they
(a) are arranged indiscriminately (b) **make a definite layer**
(c) continue to divide and help in organ function (d) none of the above.
29. Proteoglycan in cartilages which is a part of polysaccharide is
(a) **chondroitin** (b) ossein (c) casein (d) cartilagin.
30. What is sarcomere?
(a) part between two H-line (b) part between two A-line
(c) part between two I-band (d) **part between two Z-line.**
31. Which cells do not form layer and remains structurally separate?
(a) epithelial cells (b) muscle cells (c) **nerve cells** (d) gland cells.
32. During an injury nasal septum gets damaged and for its recovery which cartilage is preferred?
(a) elastic cartilage (b) **hyaline cartilage** (c) calcified cartilage (d) fibrous cartilage.
33. Melanin protects from
(a) **U.V. rays** (b) visible rays (c) infrared rays (d) X-rays.
34. Which of the following statements is true for lymph?
(a) WBC + serum (b) **blood – RBCs and some proteins**
(c) RBCs + WBCs + plasma (d) RBCs + proteins + platelets
35. Collagen is
(a) **fibrous protein** (b) globular protein (c) lipid (d) carbohydrate.
36. Which one of the following contains the largest quantity of extracellular material?
(a) striated muscle (b) **areolar tissue** (c) stratified epithelium (d) myelinated nerve fibres

37. What is true about T-lymphocytes in mammals?
- (a) there are three main types – cytotoxic T-cells, helper T-cells and suppressor T-cells
 - (b) these originate in lymphoid tissues
 - (c) they scavenge damaged cells and cellular debris
 - (d) these are produced in thyroid
38. Mast cells of connective tissue contain
- (a) vasopressin and relaxin
 - (b) heparin and histamine
 - (c) heparin and calcitonin
 - (d) serotonin and melanin.
39. Four healthy people in their twenties got involved in injuries resulting in damage and death of few cells of the following. Which of the cells are least likely to be replaced by new cells?
- (a) liver cells
 - (b) neurons
 - (c) malpighian layer of the skin
 - (d) osteocytes.
40. Which of the following substances, if introduced into the blood stream, would cause coagulation of blood at the site of its introduction?
- (a) prothrombin
 - (b) fibrinogen
 - (c) thromboplastin
 - (d) heparin.
41. Mast cells secrete
- (a) haemoglobin
 - (b) hippurin
 - (c) myoglobin
 - (d) histamine
42. Areolar connective tissue joins
- (a) bones with bones
 - (b) fat body with muscles
 - (c) integument with muscles
 - (d) bones with muscles
43. In which one of the following preparations are you likely to come across cell junctions most frequently?
- (a) thrombocytes
 - (b) tendon
 - (c) hyaline cartilage
 - (d) ciliated epithelium.
44. A drop of each of the following is placed separately on four slides. Which of them will not coagulate?
- (a) blood serum
 - (b) sample from the thoracic duct of lymphatic system
 - (c) whole blood from pulmonary vein
 - (d) blood plasma.
45. Which one of the following pairs of structures distinguishes a nerve cell from other types of cell?
- (a) vacuoles and fibres
 - (b) flagellum and medullary sheath
 - (c) nucleus and mitochondria
 - (d) perikaryon and dendrites.

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

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