



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

STRUCTURAL ORGANISATION IN ANIMALS

Others

1. Select the correct route for the passage of sperms
in male frogs

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

Answer: d



2. Frog's heart when taken out of the body continues to beat for sometime .

Select the best option from the following statements .

I . Frog is a poikilotherm .

II . Frog does not have any coronary circulation.

III . Heart is autoexcitable .

A. Only III

B. Only IV

C. I and II

D. III and IV

Answer: d



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3. Which type of tissue correctly matches with its location

	Tissue	Location
A. (a)	Areolar tissue	Tendons

	Tissue	Location
B. (b)	Transitional epithelium	Tip of nose

C.

	Tissue	Location
(c)	Cuboidal epithelium	Lining of stomach

	Tissue	Location
D. (d)	Smooth muscle	Wall of intestine

Answer: d

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4. Which of the following features is not present in *Periplaneta americana*?

- A. Indeterminate and radial cleavage during embryonic development
- B. Exoskeleton composed of N-acetylglucosamine
- C. Metamerically segmented body

D. Schizocoelom as body cavity

Answer: a



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5. In male cockroaches, sperms are stored in which part of the reproductive system

A. Seminal vesicles

B. Mushroom glands

C. Testes

D. Vas deferens

Answer: a



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6. The body cells in cockroach discharge their nitrogenous waste in the haemolymph mainly in the form of

- A. ammonia
- B. potassium urate
- C. urea
- D. calcium carbonate

Answer: b



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7. The function of the gap junction is to

- A. performing cementing to keep neighbouring cells together
- B. facilitate communication between adjoining cells by connecting the cytoplasm for rapid transfer of ions , small molecules and some large molecules
- C. separate two cells from each other
- D. stop substance from leaking across a tissue.

Answer: b



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8. Choose the correctly matched pair

- A. Tendon-Specialised connective tissue
- B. Adipose tissue - Dense connective tissue
- C. Areolar tissue - Loose connective tissue
- D. Cartilage-Loose connective tissue

Answer: c



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9. Choose the correctly matched pair

A. Inner lining of salivary ducts - Ciliated epithelium

B. Moist parts of nephrons -Glandular epithelium

C. Tubular parts of nephrons - Cuboidal epithelium

D. Inner surface of bronchioles - Squamous epithelium

Answer: c



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10. What external changes are visible after the last moult of a cockroach nymph

- A. Mandibles become harder
- B. Anal cerci develop
- C. Both fore wings and hind wings develop
- D. Labium develops

Answer: c



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11. Select the correct statement from the ones given below with respect to *Periplaneta americana*.

A. Nervous system located dorsally , consists of segmentally arranged ganglia joined by a pair of longitudinal connectives

B. Males bear a pair of short thread-like anal styles

C. There are 16 very long Malpighian tubules present at the junctions of midgut and hindgut

D. Grinding of food is carried out only by the mouth parts

Answer: b



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12. The ciliated epithelial cells are required to move particles or mucus in a specific direction. In humans, these cells are mainly present in :

- A. bronchioles and Fallopian tubes
- B. bile duct and oesophagus
- C. Fallopian tubes and urethra
- D. eustachian tube and stomach lining

Answer: a



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13. The kind of epithelium which forms inner walls of blood vessels is

- A. cuboidal epithelium
- B. columnar epithelium
- C. ciliated columnar epithelium
- D. squamous epithelium

Answer: d



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14. Cell junctions called tight , adhering and gap junctions are found in

- A. muscular tissue
- B. connective tissue
- C. epithelial tissue
- D. neural tissue

Answer: c



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15. The kind of tissue that forms the supportive structure in our pinna (external sears) is also found in

A. vertebrae

B. nails

C. ear ossicles

D. tip of the nose

Answer: d



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16. Which one of the following correctly describes the location of some body parts in the earthworm *Pheretima*

- A. Two pairs of accessory glands in 16-18 segments
- B. Four pairs of spermathecae in 4- 7 segments
- C. One pair of ovaries attached at intersegmental septum of 14th and 15th segments
- D. Two pairs of testes in 10th and 11 th segments

Answer: b



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17. Compared to blood our lymph has

- A. no plasma
- B. plasma with out proteins
- C. more WBCs and no RBCs
- D. more RBCs and less WBCs

Answer: c



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18. Most active phagocytic white blood cells are

- A. neutrophils and eosinophils

B. lymphocytes and macrophages

C. eosinophils and lymphocytes

D. neutrophils and monocytes

Answer: d



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19. Which type of white blood cells are concerned with the release of histamine and the natural anticoagulant heparin ?

A. Neutrophils

B. Basophils

C. Eosinophils

D. Monocytes

Answer: B



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20. Which one of the following mammalian cells is not capable of metabolising glucose to carbon-dioxide aerobically ?

A. White blood cells

B. Unstriated muscle cells

C. Liver cells

D. Red blood cells

Answer: d



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21. In which one of the following preparations are you likely to come across cell junctions most frequently ?

A. Ciliated epithelium

B. Thrombocytes

C. Tendon

D. Hyaline cartilage

Answer: a



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22. A drop of each of the following, is placed separately on four sides. Which of them will not coagulate ?

A. Blood plasma

B. Blood serum

C. Sample from the thoracic duct of lymphatic system

D. Whole blood from pulmonary vein

Answer: b



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23. Areolar connective tissue joins

A. integument with muscles

B. bones with muscles

C. bones with bones

D. fat body with muscles

Answer: a



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24. Mast cells of connective tissue contain

- A. vasopressin and relaxin
- B. heparin and histamine
- C. heparin and calcitonin
- D. serotonin and melanin

Answer: b



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25. Which one of the following contains the largest quantity of extracellular material ?

A. Myelinated nerve fibres

B. Striated muscle

C. Areolar tissue

D. Stratified epithelium

Answer: c



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26. Extermities of long bones possess cartilage

A. Calcified cartilage

B. Hyaline cartilage

C. Elastic cartilage

D. Fibrous cartilage

Answer: b



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27. Nasal septum gets damaged . Its recovery requires cartilage called

A. Hyaline cartilage

B. Elastic cartilage

C. Calcified cartilage

D. Fibrous cartilage

Answer: a



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28. Which of the following cells do not form layer and remain structurally separate ?

A. Epithelial cells

B. Muscle cells

C. Nerve cells

D. Gland cells

Answer: c



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29. If a piece of bone such as femur of frog is kept in dilute HCl for about a week . It will

A. assume black colour

B. shrink in size

C. turn flexible

D. crack into pieces

Answer: c



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30. Simple epithelium is a tissue in which cells are

A. hardened and provide support to the organ

B. cemented directly to one another to form a
single layer

C. continuously dividing to provide form to an
organ

D. loosely connected to one another to form an
irregular organ

Answer: c



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31. Polysaccharide found in cartilage matrix is

A. cartilagin

B. ossein

C. chondriotin

D. casein

Answer: c



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32. Which of the following is not exclusively supplied with involuntary muscles ?

- A. Muscular coats of blood vessels
- B. Muscles of the ducts of glands
- C. Muscles of iris
- D. Muscles of urethra

Answer: b



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33. The functional unit of contractile system in a striated muscle is

- A. myofibril
- B. sarcomere
- C. Z-lines
- D. cross bridges

Answer: b



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34. Stratum germinativum is an example of which kind of epithelium ?

- A. Cuboidal
- B. Ciliated
- C. Columnar
- D. Squamous

Answer: c



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35. Basement membrane is made up of

A. only epidermal cells

B. only endodermal cells

C. Both (a) and (b)

D. no cell at all , but is a product of epithelial cells

Answer: d



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36. Epithelial tissue with thin flat cells appearing like packed tiles occurs on

A. inner lining of cheek

- B. inner lining of stomach
- C. inner lining of Fallopian tubes
- D. inner lining of ovary

Answer: d



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37. Vitamin K is required for

- A. formation of thromboplastin
- B. conversion of fibrinogen to fibrin
- C. conversion of prothrombin to thrombin

D. synthesis of prothrombin

Answer: d



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38. Formation of cartilage bones involves

- A. deposition of bony matter by osteoblasts and
resorption by chondroclasts
- B. deposition of bony matter by osteoclasts and
resorption by chondroblasts

C. only deposition of bony matter by osteolasts only

D. deposition by bony matter by osteoblasts only

Answer: d



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39. Component of blood responsible for producing antibodies is

A. thrombocytes

B. monocytes

C. erythrocytes

D. lymphocytes

Answer: d



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40. Characteristics of smooth muscle fibres are

A. spindle-shaped , unbranched , unstriated ,

uninucleate and involuntary

B. spindle-shaped , unbranched , unstriped ,

multinucleate and involuntary

C. cylindrical , unbranched , unstriated ,
multinucleate and involuntary

D. cylindrical , unbranched , unstriated ,
multinucleate and voluntary

Answer: a



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41. Histamine secreting cells are found in

A. connective tissue

B. lungs

C. muscular tissue

D. nervous tissue

Answer: a



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42. Haversian canals occur in

A. humerus

B. pubis

C. scapula

D. clavicle

Answer: a



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43. Mineral found in red pigment of vertebrate blood is

A. magnesium

B. iron

C. calcium

D. copper

Answer: b



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