



BIOLOGY

BOOKS - NCERT BIOLOGY (ENGLISH)

TISSUES

Mcq

1. Which of the following tissues has dead cells?

A. Parenchyma

B. Sclerenchyma

C. Collenchyma

D. Epithelial tissue

Answer: B



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2. Find out incorrect sentence

- A. Parenchymatous tissues have intercellular spaces.
- B. Collenchymatous tissues are irregularly thickened at corners.
- C. Apical and intercalary meristems are permanent tissues.
- D. Meristematic tissues, in its early stage, lack vacuoles.

Answer: C



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3. Girth of stem increases due to

A. apical meristem

B. lateral meristem

C. intercalary meristem

D. vertical meristem

Answer: B



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4. Which cell does not have perforated cell wall?

A. Tracheids

B. Companion cells

C. Sieve tubes

D. Vessels

Answer: B



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5. Intestine absorb the digested food materials. What type of epithelial cells are responsible for that?

A. Stratified squamous epithelium

B. Spindle fibres

C. Columnar epithelium

D. Cuboidal epithelium

Answer: C



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6. A person met with an accident in which two long bones of hand were dislocated. Which among the following may be the possible reason ?

- A. Tendon break
- B. Break of skeletal muscle
- C. Ligament break
- D. Areolar tissue break

Answer: C



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7. While doing work and running, you move your organs like hands, legs, etc.

Which among the following is correct?

A. Smooth muscles contract and pull the ligament to move the bones

B. Smooth muscles contract and pull the tendons to move the bones

C. Skeletal muscles contract and pull the ligament to move the bones

D. Skeletal muscles contract and pull the tendon to move the bones

Answer: D



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8. Which muscles act involuntarily?

(i) Striated muscles (ii) Smooth muscles

(iii) Cardiac muscles (iv) Skeletal muscles

A. (i) and (ii)

B. (ii) and (iii)

C. (i) and (iv)

D. (iii) and (iv)

Answer: B



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9. Meristematic tissues in plants are

A. localised and permanent

B. not limited to certain regions

C. localised and dividing cells

D. growing in volume

Answer: C



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10. Which is not a function of epidermis?

A. Protection from adverse condition

B. Gaseous exchange

C. Conduction of water

D. Transpiration

Answer: C



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11. Select the incorrect sentence.

A. Blood has matrix containing proteins, salts and hormones.

B. Two bones are connected with ligament

C. Tendons are non-fibrous tissue and fragile.

D. Cartilage is a form of connective tissue.

Answer: C



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12. Cartilage is not found in

A. nose

B. ear

C. kidney

D. larynx

Answer: C



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13. Fats are stored in human body as

A. cuboidal epithelium

B. adipose tissue

C. cartilage

D. bones

Answer: B



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14. Bone matrix is rich in

A. fluoride and calcium

B. calcium and phosphorus

C. phosphorus and potassium

D. calcium and potassium

Answer: B



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15. Contractive protein are found in

A. bones

B. blood

C. muscles

D. cartilage

Answer: C



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16. Voluntary muscles are found in

A. alimentary canal

B. limbs

C. iris of the eye

D. bronchi of lungs

Answer: B



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17. Nervous tissue is not found in

A. brain

B. spinal cord

C. tendons

D. nerves

Answer: C



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18. Nerve cell does not contain

A. axon

B. nerve ending

C. tendons

D. dendrites

Answer: C



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19. Which of the following is inside the organ?

A. Tendon

B. adipose tissue

C. areolar

D. Cartilage

Answer: C



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20. The muscular tissue which function throughout the life continuously without fatigue is

- A. skeletal muscle
- B. cardiac muscle
- C. smooth muscle
- D. voluntary muscle

Answer: B



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21. Which of the following cells is found in the cartilaginous tissue of the

A. Mast cells

B. Basophils

C. Osteocytes

D. Chondrocytes

Answer: D



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22. The dead element present in the phloem is

- A. companion cells
- B. phloem fibre
- C. phloem parenchyma
- D. sieve tubes

Answer: B



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23. Which of the following does not lose their nucleus at maturity?

A. companion cells

B. Red blood cells

C. Vessel

D. Sieve tube cells

Answer: A



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24. In desert plants, rate of water loss gets reduced due to the presence of

- A. cuticle
- B. stomata
- C. lignin
- D. suberin

Answer: A



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25. A long tree has several branches. The tissue that helps in the side ways conduction of water in the branches is

- A. collenchyma
- B. xylem parenchyma
- C. parenchyma
- D. xylem vessels

Answer: D



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26. If the tip of sugarcane plant is removed from the field, even then it keeps on growing in length. It is due to the pressure of

- A. cambium
- B. apical meristem
- C. lateral meristem
- D. intercalary meristem

Answer: D



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27. A nail is inserted in the trunk of a tree at a height of 1 metre from the ground level. After 3 years the nail will

- A. move downwards
- B. move upwards
- C. remain at the same position
- D. move sideways

Answer: C



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28. Parenchyma cells are

A. relatively unspecified and thin walled

B. thick walled and specialised

C. lignified

D. None of the above

Answer: A



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29. Flexibility in plants is due to

A. collenchyma

B. Sclerenchyma

C. parenchyma

D. chlorenchyma

Answer: A



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30. Cork cells are made impervious to water and gases by the presence of

A. cellulose

B. lipids

C. suberin

D. lignin

Answer: C



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31. Survival of plants in terrestrial environment

has been made possible by the presence of

A. intercalary meristem

B. conducting tissue

C. apical meristem

D. parenchyma tissue

Answer: B



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32. Choose the wrong statement

(a) The nature of matrix differs according to the function of the tissue

(b) Fats are stored below the skin and in between the internal organs.

(c) Epithelial tissues have intercellular spaces between them.

(d) Cells of striated muscles are multinucleate and unbranched

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Answer: A



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33. The water conducting tissue generally present in gymnosperm is

A. vessels

B. sieve tube

C. tracheids

D. xylem fibres

Answer: C



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34. Animals of colder regions and fishes of cold water have thicker layer of subcutaneous fat. Describe why?



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Match The Following

1. Match the column I with the column II



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2. Match the column I with the column II



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3. If a potted plant is covered with a glass jar, water vapours appear on the wall of glass jar. Explain why?



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1. Name the different components of xylem and draw a living component ?



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2. Draw and identify different elements of phloem.



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3. Write true (T) or false (F)

(a) Epithelial tissue is protective tissue in animal body.

(b) The lining of blood vessels, lung alveoli and kidney tubules are all made up of epithelial tissue.

(c) Epithelial cells have a lot of intercellular spaces.

(d) Epithelial layer is permeable layer.

(e) Epithelial layer does not allow regulation of materials between body and external environment



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4. Differentiate between voluntary and involuntary muscles. Give one example of each type.



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5. Differentiate the following activities on the basis of voluntary (V) involuntary (IV) muscles.

(a) Jumping of frog

(b) Pumping of the heart

(c) Writing with hand

(d) Movement of chocolate in your intestine



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6. Water hyacinth float on water surface.

Explain.



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7. Which structure protects the plant body against the invasion of parasites?



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Fill In The Blanks

1. Fill in the blanks

(a) Lining of blood vessels is made up of..... .

(b) Lining of small intestine is made up of..... .

(c) Lining of kidney tubules is made up of..... .

(d) Epithelial cells with cilia are found in of our body



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2. Fill in the blanks

(a) Cork cells possess..... on their walls that makes it impervious to gases and water.

(b).....have tubular cells with perforated walls and are living in nature.

(c) Bone possesses a hard matrix composed of..... And



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Long Answer

1. Why is epidermis important for the plants?



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2. 48 Fill in the blanks

(a).....are forms of complex tissue.

(b)....have guard cells

(c) Cells of cork contain a chemical called.....

(d) Husk of coconut is made of.....tissue.

(e).....gives flexibility in plants.

(f)and.....are both conducting tissues.

(g) Xylem transports.....and from soil.

(h) Phloem transport.....from.....to other parts of the plant.



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3. Differentiate between sclerenchyma and parenchyma tissues. Draw well labelled diagram.



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4. Describe the structure and function of different types of epithelial tissues. Draw diagram of each type of epithelial tissue.



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5. Draw well labelled diagrams of various types of muscles found in human body.



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6. Give reasons for

(a) Meristematic cells have a prominent nucleus and dense cytoplasm but they lack vacuole.

(b) Intercellular spaces are absent in sclerenchymatous tissues.

(c) We get a crunchy and granular feeling, when we chew pear fruit.

(d) Branches of a tree move and bend freely in high wind velocity.

(e) It is difficult to pull out the husk of a coconut tree.



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7. List the characteristics of cork. How are they formed? Mention their role.



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8. Why are xylem and phloem called complex tissues? How are they different from one other?



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9. (a) Differentiate between meristematic and permanent tissues in plants.

(b) Define the process of differentiation

(c) Name any two simple and two complex permanent tissues in plants.



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