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India's Number 1 Education App

## BIOLOGY

## BOOKS - KUMAR PRAKASHAN KENDRA

## BIOLOGY (GUJRATI ENGLISH)

## TISSUES

Activity

1. Take two glass jars and fill them with water.

Now, take tow onion bulbs and place one on
each jar, as shown in fig 6.1


Observe the growth of roots in both the bubls for a few days.

Measure the lenght of roots on day 1,2 and 3.

On day 4, cut the root tips of the onion bulb in
jar 2 by about 1 cm . After this, ovbserve the growth of roots in both the jars and measure
their lengths each day for live more days and record the observations. Which of the two onions has longer roots?

## D View Text Solution

2. Take two glass jars and fill them with water.

Now, take tow onion bulbs and place one on each jar, as shown in fig 6.1


Observe the growth of roots in both the bubls
for a few days.

Measure the lenght of roots on day 1,2 and 3.

On day 4, cut the root tips of the onion bulb in
jar 2 by about 1 cm . After this, ovbserve the
growth of roots in both the jars and measure
their lengths each day for live more days and
record the observations. Do the roots continue growing even after wehave removed their tips?

## D View Text Solution

3. Take two glass jars and fill them with water.

Now, take tow onion bulbs and place one on each jar, as shown in fig 6.1


Observe the growth of roots in both the bubls
for a few days.

Measure the lenght of roots on day 1,2 and 3.

On day 4, cut the root tips of the onion bulb in
jar 2 by about 1 cm . After this, ovbserve the
growth of roots in both the jars and measure
their lengths each day for live more days and
record the observations. Why would the tips stop growing in jar 2 after we cut them?

## D View Text Solution

4. Take a plant stem and with the help of your teacher cut into very thin silces or sections.

Now, stain the slices with safranin. Place one neatly cut section on a slide and put a drop of glycerine.

Cover with a slip and observe under a microscope. Observe the various types of cells
and their arrangement. Are all cells similar in structure?

## D View Text Solution

5. Take a plant stem and with the help of your teacher cut into very thin silces or sections.

Now, stain the slices with safranin. Place one neatly cut section on a slide and put a drop of glycerine.

Cover with a slip and observe under a microscope. Observe the various types of cells
and their arrangement. How many types of cells can be seen ?

## D View Text Solution

6. Take a plant stem and with the help of your teacher cut into very thin silces or sections.

Now, stain the slices with safranin. Place one neatly cut section on a slide and put a drop of glycerine.

Cover with a slip and observe under a microscope. Observe the various types of cells
and their arrangement. Can we think of reasons why there would be so many types of cells ?

## D View Text Solution

7. Take a freshyl plucked leaf of Rhoeo.

Strech and break it by applying pressure.

While breaking it. Keep it stretched gently so
that some peel or skin projects out from the cut.

Remove this peel put it in a petri dish filled
with water.

Add a few drops of safranim.

Wait for a couple of minutes and then transfer in onto a slide. Gently place a cover slip over it.

Observe under microscope.

Observation :

A peel of Rhoeo leaf if mounted on the slide and observed under a microscope, it reveals
the structure of a leaf. The cells of epidermis and stomata are seen when observed.

Structure of a leaf:

Outermost layer of the leaf is made - up of single layered cells called epidermis.

Epidermis layer does not have intercellular spaces. The cells are flat, with outer and side walls thicker than the inner wall.

Small pores, i.e., stomata are seen in the epidermal layer.

Stomata help in transpiration and gaseous exchange.

Desert plants have thicker epidermis for protection. In dry habitats, water loss is the critical problem. The entire surface of the plant is therefore covered over by epidermis.

Aerial parts of the plant are covered by epidermal cells. They secrete water - resistant,
waxy layer for the purpose of protection.

Epidermal cells also protect the plant from mechanical injury and parasitic invasion of fungi. Think about which gas may be required for photosynthesis.

## D View Text Solution

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Epidermal cells also protect the plant from mechanical injury and parasitic invasion of
fungi. Find out the role of transpiration in plants.

## D View Text Solution

Next Questions And Answers

## 1. What is a tissue?

## D View Text Solution

2. What is the utilly of tissue in multicelluar organisms ?

D View Text Solution
3. Name types of simple tissues.
4. Where is apical meristem found ?

D View Text Solution
5. Which tissue makes up the husk of coconut
?

D View Text Solution
6. What are constitunes of phloem ?

## - View Text Solution

7. Name the tissue responsible for movements in our body.

## - View Text Solution

8. What does a neuron look like?

- View Text Solution


## 9. Give three features of cardiac muscles.

## D View Text Solution

10. What are the functions of areolar tissue?

- View Text Solution


## Questions And Answers Answer The Following <br> Questions In Very Short 1 Mark Each

1. Define the term tissue.

## D View Text Solution

2. How many types of elements together make up the xylem tissue? Name them.

## D View Text Solution

3. What is the function of vascular tissues in
plants?

## - View Text Solution

4. What is the special character of cork tissue?

- View Text Solution

5. Which tissue is responsible for the increase
in the girth of stem?

D View Text Solution

## 6. What is differentiation ?

## D View Text Solution

## 7. What is the function of aerenchyma?

## D View Text Solution

8. Which permanent tissue provides flexibility to the plant ?
9. Which tissue makes the husk of the coconut?

- View Text Solution

10. What is special characteristic of connective tissue ?

D View Text Solution
11. In which type of matrix are bone cells embedded?

## D View Text Solution

12. Which is the fibrous connective tissue having great strength but limited flexibility ?

## - View Text Solution

Questions And Answers Name The Following 1 Mark Fach

1. Name the Tissue that forms the inner lining of our mouth.

D View Text Solution
2. Name the Tissue that stores fat in our body.

D View Text Solution
3. Name the Tissue present in the brain
4. Name the Epithelial tissue containing thin, flat, irregular cells.

- View Text Solution

5. Name the Epithelial tissue found in the ducts of salivary glands.

D View Text Solution

## 6. Name the Epithelial tissue present in glands

 such as the thyroid and pituitary glands.
## - View Text Solution

## Questions And Answer Identify The Type Of

 Tissue In The Following 1 Mark Each1. Identify the type of Tissue

Skin

## 2. Identify the type of Tissue

## Bark of tree

D View Text Solution

## 3. Identify the type of Tissue

## Bone

## 4. Identify the type of Tissue

## Lining of kidney tubules

## D View Text Solution

## 5. Identify the type of Tissue

Vascular bundle

## D View Text Solution

Questions And Answer Answer The Followng Question In One Word Or One Sentence 1 Mark

1. Which type of tissue is chlorenchyma in leaf?

## - View Text Solution

2. In which element of phloem, are the cell with perforated walls present ?
3. Which tissue is living though it is irregularly thickened at the corners ?

- View Text Solution

4. Which element of the xylem is not connected with the function of conduction ?

## D View Text Solution

## 5. Which plant tissue allows easy bending in

various parts of a plant without breaking ?

- View Text Solution

6. What is the main function of adipose tissue
?

- View Text Solution


## 7. Which epithelial tissue protects inner parts

 of the body and prevent wear and tear?
## D View Text Solution

8. Which connective tissue is found between the skin and muscles ?
9. Which epithelium tissue in the intestine is
related with absorption and secretion ?

D View Text Solution
10. Due to which component, the colour of blood is red?
(D) View Text Solution
11. Which cells are embeded in a hard matrix that is composed of calcium and phosphorus ?

## D View Text Solution

12. In which type of muscle tissue, alternate light and dark bands (striations) are not seen?

## D View Text Solution

13. Which type of muscle tissue shows rhythmic contraction and relaxation throughout life?

## D View Text Solution

Question And Answers Choose The Correct Option From Those Given Below Each Question 1 Mark Each

1. A tissue made of more than one type of cells
A. Collenchyma
B. Simple tissue
C. Parenchyma
D. Complex tissue

## Answer: C

D View Text Solution
2. Live mechanical tissue :
A. Parenchyma
B. Collenchyma
C. Sclerenchyma
D. Chlorenchyma

## Answer: A::C

## D View Text Solution

3. Which tissue allows easy bending in parts of plant without breaking?
A. Collenchyma
B. Scelrenchyma
C. Aerenchyma
D. Xylem

## Answer: A::C

## D View Text Solution

4. What is the main function of phloem in plants ?
A. Conductor of water

## B. Transport of food

C. Photosynthesis
D. Ascent of sap

## Answer: A::D

D View Text Solution
5. Which element of the xylem stores food?
A. Tracheid
B. Xylem fibre
C. Xylem parenchyma

D. Trachea

## Answer: A::C

## D View Text Solution

6. Which is the dead element of the pholem ?
A. Sieve tube
B. Sieve cell
C. Phloem parenchyma

## D. Phloem fibre

## Answer: B

## D View Text Solution

7. What is the location of intercalary meristem?
A. At growing tips of stem or roots
B. . On the lateral side of plant organ
C. . Inside the trachea

## D. . At the base of the leaves

## Answer: A::B

## D View Text Solution

8. In which tissue, large intercellular spaces are
found between the cells?
A. Meristematic
B. Parenchyma
C. Collenchyma

## D. Sclerenchyma

## Answer: A::C

## D View Text Solution

## 9. Which element is not included in phloem?

A. Sieve cell
B. Companion cell
C. Collenchyma
D. Phloem parenchyma

Answer: A::C

## D View Text Solution

10. In which tissue is the thickening of lignin found?
A. Collenchyma
B. Sclerenchyma
C. Phloem
D. Xylem

## D View Text Solution

11. Which tissue provides support to the plants
?
A. Collenchyma
B. Parenchyma
C. Parenchyma
D. Arenchyma

Answer: A::C

## D View Text Solution

12. Which tissue provides mechanical support as well as flexibility to plants?
A. Parenchyma
B. Arenchyma
C. Collenchyma
D. Sclerenchyma

## Answer: C

## D View Text Solution

13. Which tissue provides mechanical strength
along with hardness to the plants ?
A. Parenchyma
B. Arenchyma
C. Collenchyma
D. Sclerenchyma

## Answer: D

## D View Text Solution

14. Which element (component) possesses chlorophyll?
A. Tracheids
B. Guard cells
C. Phloem parenchyma
D. Companion cell

## Answer: A::C::D

## D View Text Solution

15. What is lacking in the meristematic tissue from the following?
A. . Dense cytoplasm
B. Nucleus
C. Cellulose
D. Vacuole

## D View Text Solution

16. Which tissue is found in leaf stalks below
the epidermis?
A. Apical meristem
B. Collenchyma
C. Xylem
D. Phloe

Answer: A::C

## D View Text Solution

17. Which substance does the cell wall in the
husk of a coconut possess?
A. Lignin
B. Cutin
C. Suberin
D. Pectin

## Answer:

## D View Text Solution

18. Thickening of which chemical makes the bark impervious to gases and water ?
A. Cellulose
B. Lignin
C. Suberin
D. Pectin

## D View Text Solution

19. Which two cells enclose the stoma (plural-
stomata)
A. . Companion cells
B. Complementary cells
C. Guard cells
D. Sclerenchyma cells

## Answer: A::C::D

## D View Text Solution

20. Statement X: Both Xylem and Phloem together constitute a vascular bundle.

Statement Y: Conducting tissues are complex permanent tissue. Which alternative is true for Statements $X$ and $Y$ ?
A. Statement $X$ is true, statement $Y$ is false.
B. Statement $X$ is false, statement $Y$ is true.
C. Both the statements $X$ and $Y$ are true.

## D. . Both the statements $X$ and $Y$ are false.

## Answer: A::B::D

## D View Text Solution

21. Where is cuboidal epithelium located ?
A. Lining of duct of salivary gland
B. Lining in the respiratory tract
C. Outer layer of skin

## D. . Lining of oesophagus

## Answer: A::C::D

## D View Text Solution

22. What is the characteristic of unstriatedmuscles?
A. Long, cylindrical, uninuclea
B. Long, spindle-shaped, uninucleate
C. Short, cylindrical, multinucleate

## D. Long, spindle-shaped, multinucleate

## Answer: A::C::D

## D View Text Solution

23. Which tissue forms the lining of the intestine where absorption and secretion occur
A. Squamous cepithelium
B. tratified epithelium

## C. Columnar epithelium

D. Ciliated epithelium

## Answer: A::C

## D View Text Solution

## 24. What is invalid for areolar tissue ?

A. Collagen fibre
B. Fibroblast
C. Macrophase

## D. Harversion canal

## Answer: A::C

## D View Text Solution

25. Which are the main elements whose compounds are found in the matrix of bone cells?
A. Sodium and chlorine
B. Sodium and potassium

## C. Calcium and phosphorus

D. All the give

## Answer: C

## D View Text Solution

26. Which of the following is not included in white blood corpuscles?
A. Neutrophil

B. Lymphocyte

## C. Monocyte

D. Platele

## Answer: A

## D View Text Solution

27. It is an involuntary muscle tissue possessing striations:
A. Skeletal muscle tissue (Striated muscle
tissue)
B. Simple muscle tissue
C. Cardiac muscle tissue
D. Areolar connective tissue

## Answer: A::C::D

## D View Text Solution

## 28. Which cell may be up to 1 metre long?

A. Nerve cell
B. Non-striated (Unstriated)

## C. Cardiac muscle cell

## D. Collagen fibre cell

## Answer: C

## D View Text Solution

29. In human, muscle cells
A. . conduct the message from one part to
the another part
B. contract and relax to cause movement

## C. conduct the food

D. transports the oxygen

## Answer: A::C::D

D View Text Solution
30. Bone is a ......... tissue.
A. epithelial
B. muscle
C. connective
D. nerve

## Answer: C

## - View Text Solution

## Question And Answers Fill In The Blanks 1 Mark Each

1. Parenchyma containing chlorophyll is called tissue.
2. ......... tissue is present at shoot apex (tip of
stem).

- View Text Solution

3. In sclerenchyma tissue, the thickening of
.........is seen

D View Text Solution
4. Aerenchyma is a type of ......... tissue.

## D View Text Solution

5. Sieve tube is an important element of tissue.

D View Text Solution
6. The only dead element of phloem tissue is

## - View Text Solution

7. The tissue, whose cells undergo continuous cell division and produce new cells, is knownas tissue.

## D View Text Solution

8. ........., which connects muscles to bones is a type of connective tissue.
9. ........., which connects two bones to each other is a type of connective tissue.

D View Text Solution
10. The ......... tissue, which is mostly attached to
bones, is known a skeletal muscle tissue.

D View Text Solution
11. All epithelium are separated from underlying tissue by an extracellular structure called

## D View Text Solution

12. A portion of the cuboidal epithelial tissue
folds inward and form

D View Text Solution
13. ......... is a fibrous tissue with great strength but limited flexibility

## - View Text Solution

14. ......... cells are cylindrical, branches and uninucleate.

## - View Text Solution

Question And Answers Fill In The Blanks By Selecting The Correct Alternative From Those

## Given In The Bracket 1 Mark Each

1. Meristematic tissue is present in ......... of the
plant.

## D View Text Solution

2. ......... tissue is not included in simple permanent tissues. (Parenchyma,

Sclerenchyma, Xylem)
3. ......... tissue conducts water and soluble salts
along with providing mechanical strength.
(Sclerenchyma, Xylem, Phloem)

## D View Text Solution

4. In ..... tissue, the cells become dead and without protoplasm.
(parenchyma,
sclerenchyma, collenchyma)

D View Text Solution
5. ......... tissue stores the nutrients and water.
(Collenchyma, Parenchyma, Sclerenchyma)

## D View Text Solution

6. ........ tissue is one of the types of parenchyma. (Chlorenchyma, Collenchyma, Sclerenchyma)

## View Text Solution

7. The only live component ........ of xylem tissue
is connected in the lateral transport of water.
(tracheids, trachea, xylem parenchyma)

## D View Text Solution

8. ......... tissue is never found in the roots.

## D View Text Solution

9. ....... tissue forms the bark of the tree.
(Sclerenchyma, Xylem, Secondary meristem)

## D View Text Solution

10. Vascular bundle is constituted by tissues. (meristematic, simple permanent,complex permanent)

D View Text Solution
11. In cells lining lung alveoli, the transportation of substances occurs through
a .......... (selectively permeable surface, semipermeablesurface, solely permeable surface)

## D View Text Solution

12. In skin, stratified ......... epithelial tissues are
arranged in many layers. (columnar, cuboidal, squamous)
13. The cells of ......... epithelium often acquire additional specialisation as gland cell. (columnar, cuboidal, squamous)

## D View Text Solution

14. Cartilage tissue is absent in the structure of (tip of nose, pinna of ear, ligament)
15. Astriated tissue is not present in
(stomach, heart, ureters)

## D View Text Solution

16. The bone cells are embeded rich in salts of
(sodium, calcium, potassium)

## D View Text Solution

17. The intercellular material in the squamous
epithelial tissue is known as ..........(cementing
material.jelly, secreting material)

## D View Text Solution

Question And Answers State Whether The Following Statements Are Ture Of False 1 Mark Each

1. The cells of meristematic tissue undergo
continuous cell division and produce new cells

- View Text Solution


# 2. Apical meristem is present at tips of stems 

 and roots.
## D View Text Solution

3. The inner wall of cell of collenchyma is made of lignin.

## D View Text Solution

4. There are sclerenchyma cell in the hard covering of seeds (bean, pea and green gram).

## 5. Sclerenchyma is a dead mechanical tissue.

## D View Text Solution

6. Parenchyma tissue is also known as chlo renchyma

## 7. Lateral meristem (cambium) increases the

 girth of the root and stem.D View Text Solution
8. All the cells of xylem tissue are dead cells.

D View Text Solution
9. All the cells of phloem are living cells.
10. Phloem tissue transports water and salts
from roots to leaves in upward direction.

## D View Text Solution

11. The outer layer of skin and lining of mouth
is covered with squamous epithelium.

D View Text Solution
12. Ciliated columnar epithelium forms the
lining of kidney tubules and duct of salivary glands.

## D View Text Solution

13. Ciliated epithelium is a type of transformed columnar epithelium.

D View Text Solution
14. A neuron has a single axon and many dendrites.

D View Text Solution
15. The intercellular matrix of connective tissue may be jelly like fluid, dense or rigid.

## D View Text Solution

16. Bones and cartilages are two types of ciliated epithelium tissue.

D View Text Solution
17. Blood is a connective tissue.

D View Text Solution
18. Cardiac muscles are cylindrical, branched anduninucleate.

## - View Text Solution

19. Striated muscles are spindle-shaped, uninucleate, flat and narrow at ends.

## - View Text Solution

20. Nerve impulses do not allow us to move our muscles when we want to move.

Question And Answers Answer The Following Question In Short 2 Marks Rech

1. Name the regions in which parenchyma tissue is present.

## D View Text Solution

2. What are the functions of the stomata?

- View Text Solution


## 3. Mention two functions of stomata.

## D View Text Solution

4. Why does the growth of a plant occur in
specific regions ? Where are the following
found ? (a) Intercalary meristem (b) Lateral meristem

D View Text Solution

## 5. What is the role of epidermis in plants?

## D View Text Solution

6. How does the cork act as a protective tissue ?

## - View Text Solution

7. How are simple tissues different from complex tissues in plants ?

## - View Text Solution

8. What is the specific function of the cardiac muscle ?

## - View Text Solution

9. Where are stratified squamous epithelium tissues present ? What is their function?

Question And Answers Give Scientific Reasons For The Following Statements 2 Marks Each

1. Give scientific reason for The meristematic tissue is chiefly connected with the function of growth in plants.

## - View Text Solution

2. Give scientific reason for The cells of sclerenchyma and most of the components of xylem tissue are dead.

## - View Text Solution

3. Give scientific reason for Xylem is a complex tissue.

## D View Text Solution

4. Give scientific reason for Sclerenchyma
tissue provides mechanical strength to the plant parts.

## 5. Give scientific reason for Parenchyma tissue

 is formed in the plants for various functions.
## D View Text Solution

6. Give scientific reason for $\ln$ the function of
the epidermal cells of the roots and stem
variety is seen.

- View Text Solution

7. Give scientific reason for The bark cells of a tree are dead

## D View Text Solution

8. Give scientific reason for Various organs of the body are connected through the blood.

## D View Text Solution

Question And Answers Match The Following Property 2 Marks Each

## 1. Match the following

| Column I | Column II |
| :--- | :--- |
| 1. Apical | a. Provides support <br> meristem <br> 2. Lateral meristem <br> 3. Parenchyma <br> 4. Sclerenchyma |
| of root <br> c. Hardness and <br> stiffness |  |
|  | d. Responsible for <br> increase in girth of <br> stem |

## D View Text Solution

## 2. Match the following

| Column I | Column II |
| :--- | :--- |
| 1. Collenchyma <br> 2. Sclerenchyma <br> 3. Xylem <br> parenchyma | a. In husk of coconut <br> b. Helps in sideway <br> conduction of water |
| 4. Sieve tube | c. In leaf stalks below <br> the epidermis |
|  | d. Tubular cells with <br> perforated walls |

## D View Text Solution

## 3. Match the following

| Column I | Column II |
| :--- | :--- |
| 1. Skeletal muscle <br> tissue | a. Parenchyma <br> b. Striated muscles <br> tissue |
| 2. Packing tissue <br> 3. Live mechanical <br> tissue | c. Sclerenchyma <br> d. Collenchyma |
| 4. Dead tissue |  |

## D View Text Solution

## 4. Match the following

| Column I | Column II |
| :--- | :--- |
| 1. Mucillaginous | a. Cells of the bark |
| canal | b. Sclerenchyma |
| 2. Cuticle | c. Cortex |
| 3. Lignin | d. Epidermis |
| 4. Suberin |  |

## 5. Match the following

| Column I | Column II |
| :--- | :--- |
| 1. Gland cells | a. Columnar epithelium |
| 2. Ciliary cells | b. Blood |
| 3. Layered cells | c. Cuboidal epithelium |
| 4. Suspended cells | d. Stratified epithelium |

## D View Text Solution

## 6. Match the following

| Column I | Column II |
| :--- | :--- |
| 1. Repair of tissue | a. Adipose tissue |
| 2. As an insulator <br> 3. Support to main <br> organs | c. Cartar <br> oreolage |
| 4. Bone <br> Smoothens the <br> bone surface |  |

## D View Text Solution

## Question And Answers Distinguish Between The Following 2 Or 3 Mark Each

1. Distinguish between Meristem tissue and permanent tissue

D View Text Solution
2. Distinguish between Parenchyma and Sclerenchyma

D View Text Solution
3. Distinguish between Collenchyma and

## Sclerenchyma

- View Text Solution

4. Distinguish between xylem and Phloem

- View Text Solution

5. Distinguish between Bone and Cartilage
6. Distinguish between Striated muscie and Smooth muscle

## D View Text Solution

7. Distinguish between Columnar epithelium and Cuboidal epithelium

D View Text Solution
8. Distinguish between Epithelial tissue and

Connective tissue

## D View Text Solution

9. Distinguish between Tendon and Ligament

## D View Text Solution

10. Distinguish between Parenchyma,

Collenchyma and Sclerenchyma on the pasis of
their cell wall Give three distinguishing character of collenchyma and parenchyma.

## D View Text Solution

11. Distinguish between striated, unstriated and cardiac muscles on the basis of their structure and site/location in the body.

## D View Text Solution

12. Differentiate between three types of muscular tissue.
(D) View Text Solution
13. Diagrammatically show the difference between the three types of muscle fibres.

## - View Text Solution

Question And Answer Answer The Following
Question In Brief 3 Marks Each

1. Describe the structure and functions of xylem.

D View Text Solution
2. Decribe the structure and function of phloem.

## D View Text Solution

3. Describe the functions of epithelial tissues

## - View Text Solution

4. What is a connective tissue ? State it's any two basic components. Differentiate between
ligament and tendon.

## D View Text Solution

5. (5) What are the different types of connective tissues ?

# 6. (6) Describe the structure and functions of 

 areolar connective tissue.D View Text Solution

## 7. Sketch and label adipose connective tissue

## D View Text Solution

8. Mention one region in the body where adipose tissue is present and state its one function.

## D View Text Solution

9. Draw a labelled diagram of striated muscle.

Give its location and function.

D View Text Solution

## 10. Answer the following :

. Draw a labelled diagram of neuron with two
labelling.

## D View Text Solution

11. Answer the following :

Identify the tissue which is made-up of these cells.
12. Answer the following :

Name one organ that is made of this tissue.

## - View Text Solution

## Question And Answers Answer The Following

Question In Detail 4 Marks Each

1. Why the tissues of plants and animals different from each other? Explain.
2. Describe the structure of meristematic tissue and their locations in plant body,

## D View Text Solution

3. (3) What are the different types of epithelial
tissues ? Describe functions of each in brief

## D View Text Solution

4. Why bone and cartilage are called connective tissues ? Describe the structure of bone and cartilage.

## D View Text Solution

## 5. Complete the table

## D View Text Solution

6. Make a chart to show all the animal tissues.

## - View Text Solution

7. Mention the different components of blood in the following diagram :

## - View Text Solution

8. Write a brief account of structure of neuron.

- View Text Solution

Questions And Answers Draw The Labelled Diagram

1. Draw the labelled diagram Location of meristematic tissue in plant body

## D View Text Solution

2. Draw the labelled diagram Parenchyma -

Transverse and longitudinal
3. Draw the labelled diagram Collenchyma -

Transverse and longitudinal sections

- View Text Solution

4. Draw the labelled diagram Seclerenchyma -

Transverse and longitudinal sections

- View Text Solution

5. Draw the labelled diagram Structure of stomata in lateral view and surface view

- View Text Solution

6. Draw the labelled diagram Section of phloem

D View Text Solution
7. Draw the labelled diagram Elements of xylem

## D View Text Solution

## 8. Draw the labelled diagram

Types of epithelial tissues - Squamous,
cuboidal, columnar and stratified

- View Text Solution


## 9. Draw the labelled diagram

Types of connective tissues - Areolar, adipose, cartilage bone and blood cells

## D View Text Solution

10. Draw the labelled diagram

Types of muscular tissue - Striated smooth and cardiac muscles

## Value Based Questions With Answers

1. Smita had an accident and broke her knee
ligament and fractured her forearm. Doctor set the fracture but advised her a surgery for knees and complete rest for 4 weeks. She cannot attend the school due to doctor's advice

Why Doctor has to perform surgery on knees?

## View Text Solution

2. Smita had an accident and broke her knee
ligament and fractured her forearm. Doctor
set the fracture but advised her a surgery for knees and complete rest for 4 weeks. She cannot attend the school due to doctor's advice
) What is ligament?

- View Text Solution

3. Smita had an accident and broke her knee
ligament and fractured her forearm. Doctor
set the fracture but advised her a surgery for knees and complete rest for 4 weeks. She cannot attend the school due to doctor's advice

How will you help Smita in her studies?

## - View Text Solution

4. . Mahesh had planted a mango tree. As soon
as its shoot grew to some height, someone
from the road came and chopped off its shoot.
As a result the mango tree was not growing tall. Mahesh kept a watch and grabbed the person who was plucking the tip. What must have been explained by Mahesh to this man in order to save his tree? What values do you see in Mahesh?

## Question Based On Practical Skills With Answers

 Select The Appropriate Option And Complete The Sentence1. The correct figure of sclecrenchyma tissume
is

A. 1
B. 2
C. 3
D. 4

## Answer: D

## D View Text Solution

2. Raj observed nerve cells under the microscope and made the following sketch.

The mistake in his drawing is cyton with ....

A. cilia
B. dendrites
C. nucleus
D. cytoplasm

Answer: A::C
3. A slide given to you for identification consists of long narrow dead cells which have thick boundaries. Under which tissue would you place them?
A. Sclerenchyma tissue
B. Collenchyma tissue
C. Parenchyma tissue
D. Meristematic tissue

## - View Text Solution

4. A student observed the empty spaces in side of sclerenchyma. It shows

A. Protoplasm is dead at maturity
B. Intercellular spaces
C. Cytoplasm is thin
D. Lumen in cell

## Answer: A::D

## D View Text Solution

5. The characterstic features to identify a nerve cell are :
A. Round or oval cells with bilobed nucleus and cytoplasmic granules.
B. Cell body with branched cytoplasmic extensions at one end and a long
projection at the other end.
C. Spindle-shapped cell with a big central nucleus.
D. Red coloured, biconcave disc-shaped enucleated cells.

Answer: A::B::C::D

D View Text Solution
6. Figure depicting the parts of a neuron is given below :


The
correct identification of the labels 1,2,3,4 respectively is .....
A. dendrite, cytoplasm, nucleus, nerve Abre
B. cilia, endoplasmic reticulum, nucleus, nerve fibre
C. dendrite, cell body, nucleus, axon

D. dendrite, cyton, nucleus, axo

## Answer: A::B::C::D

## D View Text Solution

7. Which out of the following is not a parenchyma?
A. Collenchyma
B. Mesophyll cells
C. Chlorenchyma

## D. Aerenchyma

## Answer: A

## D View Text Solution

8. Which of the following has lots of sclerenchymatous tissue?
A. Cucumber
B. Bottle gourd
C. Coconut

## D. Cashewnut

## Answer: C

## D View Text Solution

9. The triceps muscle is joined to a humerus bone by means of tendon. What kind of a muscle fibre must be present in this muscle?
A. Cardiac
B. Smooth
C. Voluntary
D. Non - straited

## Answer: A

## D View Text Solution

10. Which tissue has longest cells ?
A. Epithelial tissue
B. Muscular tissue
C. Connective tissue

## D. Nervous tissue

## Answer:

## D View Text Solution

11. Which of the following has aerenchyma in
its leaves?
A. Lotus
B. Cactus
C. Hibiscus

## D. Deodar

## Answer:

## D View Text Solution

12. Which one of the following is odd one but ?

(1)

(2)

(3)

(4)
A. 1
B. 2
C. 3
D. 4

## Answer: D

(D) View Text Solution
13. Match the diagrams with their correct
labellings from the given column :

(1)

(2)

(3)

(4)

| (1) | (2) | (3) | (4) |
| :--- | :--- | :--- | :--- |
| (a) Adipose connective | Areolar connective | Parenchyma | Bone |
| (b) Bone | Cartilage | Xylem vessel | Phloem |
| (c) Parenchyma | Companion cells | Sieve tubes | Collenchyma |
| (d) Parenchyma | Collenchyma | Sclerenchyma | Aerenchyma |

## (D) View Text Solution

## 14. In a diagram of a neuron , $A, B$ and $C$ are

## marked.



## Match the functions of $A, B, C$

A. A. Picking up the impulse B. Transmitting
the impulse C. Helping conduction
B. A. Transmitting the impulse B. Picking up
the impulse C. Control of cell
C. A. Governing the cell B. Controlling
nerves C. Cell division
D. A. Connecting neurons B. Spreading message C. Destroying cells

## Answer: B

15. Which one of the following is the correct diagram of neuron?

(1)

(3)

(4)
A. 1
B. 2
C. 3
D. 4

## Answer: A

## - View Text Solution

## 16. Which diagram shows sclerenchyma ?


(1)

(2)

(3)

(4)
A. 4
B. 3
C. 2
D. 1

## Answer: A

## D View Text Solution

17. Which of the following correct diagra of skeletal muscler fibre?

(1)

(2)

(3)

(4)
A. 1
B. 2
C. 3
D. 4

Answer: C

D View Text Solution

