

BIOLOGY

BOOKS - BETOPPERS

TISSUES

Formative Worksheet

1. Which type of epithelial tissue is found in the cells lining blood vessels?

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

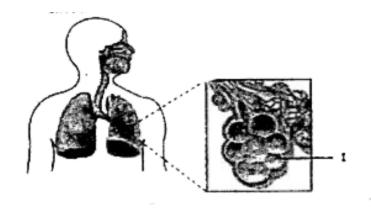


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2. The given illustration represents the human respiratory system.

In the given illustration, the structure labelled

I is lined with which type of epithelial tissue?



- A. Columnar epithelium
- B. Stratified squamous
- C. Cuboidal epithelium
- D. Simple squamous

Answer:



3. Skin is a protective body covering. Which epithelium is present in skin?

A. Stratified squamous epithelium

B. Simple squamous epithelium

C. Columnar epithelium

D. Cuboidal epithelium

Answer:



4. The goblet cells are specialised cells found in the intestine, which secrete mucus. Mucus acts as a lubricant. Which of the following epithelial cells is modified as goblet cells?

A. Cuboidal epithelium

B. Columnar epithelium

C. Simple squamous epithelium

D. Stratified squamous epithelium

Answer:

5. Ciliated columnar epithelium, which is made of cilia, is found in the lining of the

A. respiratory tract

B. kidney tubules

C. oesophagus

D. mouth

Answer:



6. __i__ epithelium is present in the internal lining of kidney tubules. __ii__ present in the lining of the small intestine. The information in which alternative completes the given statements?

A. i-columnar ii-it is also

B. i-cuboidal ii-it is also

C. i-cubiodal ii- columnar epithelium is

D. i-columnar ii-cubiodal epithelium is



- **7.** The linings of _i_ and _ii_ are made of simple squamous epithelial cells. The information in which alternative completes the given statement?
 - A. i-oesophagus ii-blood vessels
 - B. i-kidney ii-blood vessels
 - C. i-kidney tubules ii-intestines

D. i-oesophagus ii-intestines

Answer:



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8. The matrix of __i__ is composed of compounds of phosphorus and calcium. The matrix of composed of __ii__ proteins and sugars. The information in which alternative completes the given statements?

A. i-cartilage ii-bone is

- B. i-bone ii-bone is also
- C. i-cartilage ii-cartilage is also
- D. i-bone ii-cartilage is



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9. Blood is a type of connective tissue. Which of the following statements about the functions of blood is correct?

- A. It helps in transporting gases and nutrients
- B. It helps in connecting bones to muscles
- C. It helps in the digestion of food
- D. It helps in the storage of fats



10. In human respiratory system, the air enters the nostrils and is transported to the lungs through trachea. particular connective tissue lines the trachea and prevents it from collapsing. Which connective tissue supports the trachea?

- A. Adipose
- B. Ligament
- C. Tendon
- D. Cartilage



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11. The given figure illustrates a type of connective tissue. In the given figure, the structure labelled 'X' is composed of which types of cells?



- A. Adipocytes
- B. Osteocytes
- C. Monocytes
- D. Lymphocytes



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12. Polar bears live at the North Pole. They have a number of adaptations to enable them to live in the harsh conditions. For example,

they have a thick layer of blubber (fat) up to 11 cm, which helps them in keeping warm while swimming in cold water. Which type of tissues helps the polar bear in the given situation?

- A. Areolar tissue
- B. Adipose tissue
- C. Cartilage tissue
- D. Skeletal tissue

Answer:



13. _i_ muscle fibre helps in the contraction and relaxation of blood vessels. It is spindle in shape and in _ii_ action.

The information in which alternative completes the given statements?

A. i-smooth ii-voluntary

B. i-skeletal ii-voluntary

C. i-smooth ii-involuntary

D. i-skeletal ii-involuntary



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14. Smooth muscle cells are found in __i_ and ii .

The information in which alternative completes the given statement?

A. i-bronchi ii-hands

B. i-bronchi ii-iris

C. i-heart ii-iris

D. i-heart ii-hands

Answer:



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15. The given illustration represents a type of muscle. The type of muscle shown in the given illustration is likely to be found in the



A. muscles of arms

B. muscles of legs

C. stomach

D. heart

Answer:



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16. The oesophagus helps in the passage of food from the mouth to the stomach. The muscle cells present in the oesophagus are

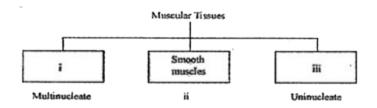
__i__ and __ii__. The information in which alternative completes the given statement?

- A. i-multinucleate ii-spindle shaped
- B. i-uninucleate ii-cylindrical
- C. i-multinucleate ii-cylindrical
- D. i-uninucleate ii-spindle shaped

Answer:



17. The given figure illustrates the types of muscle tissues.



The information in which alternative correctly completes the given flowchart?

A. i-Cardiac muscle ii-Multinucleate iiiStriated muscle

B. i-Striated muscle ii-Uninucleate iiiCardiac muscle

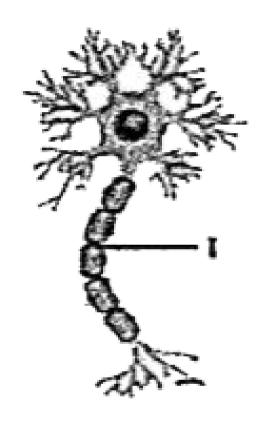
C. i-Cardiac muscle ii-Enucleate iii-Striated muscle

D. i-Striated muscle ii-Enucleate iii-Cardiac muscle

Answer:



18. The given illustration represents a neuron.



In the given illustration, the structure labeled I is the

A. nerve ending

- B. cell body
- C. dendrite
- D. axon



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19. Which connective tissue helps in storing fats?

A. Tendon

- B. Ligament
- C. Adipose tissue
- D. Areolar tissue



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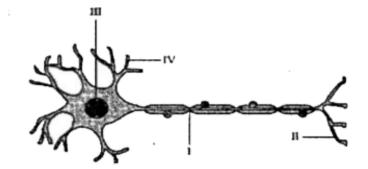
20. Bones and muscles are connected to each other with the help of a connective tissue. Which connective tissue joins muscles to bones?

- A. Tendon
- B. Ligament
- C. Areolar tissue
- D. Adipose tissue



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21. The given figure illustrates the structure of nerve cell.



All the activities of the cell are controlled by the part labelled as

A. I

B. II

C. III

D. IV

Answer:

22. _i_ meristem is responsible for the increase in the length of the stem and roots. _ii_ responsible for the increase in the girth of the stem and roots. The information in which alternative completes the given statements?

A. i-laterl ii-apical meristem is

B. i-apical ii-lateral meristem is

C. i-apical ii-apical meristem is also

D. i- lateral ii-lateral-meristem is also

Answer:



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23. Which of the following organelles is absent in the cells of the meristematic tissue?

- A. Nucleus
- B. Vacuoles
- C. Ribosomes

D. Mitochondria

Answer:



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24. In plants, meristematic tissue is of three types. The __i__ helps in increasing the length of the plant while the intercalary meristem. helps in the __ii__ growth of plants and the __iii__ meristem helps in increasing the thickness of plants.

The information in which alternative completes the given statement?

A. i-lateral meristem ii-longitudinal iii-apical

B. i-apical meristem ii-intercalary iii-lateral

C. i-lateral meristem ii-equatorial iii-apical

D. i-apical meristem ii-apical iii-lateral

Answer:



25. Which type of permanent tissue helps in storing food in plants?

- A. Parenchyma
- B. Collenchyma
- C. Xylem
- D. Phloem

Answer:



26. Simple permanent tissue is made of only one type of cells. Which type of permanent plant tissue provides buoyancy to aquatic plants?

- A. Chlorenchyma
- B. Sclerenchyma
- C. Aerenchyma
- D. Collenchyma

Answer:



27. Permanent plant tissues are of two types: simple and complex. Which type of simple permanent tissue provides flexibility to plants?

- A. Parenchyma
- B. Aerenchyma
- C. Collenchyma
- D. Sclerenchyma

Answer:



28. Stomata are present on the epidermis of the leaf. What is the primary function of stomata?

- A. Storage
- B. Photosynthesis
- C. Providing flexibility
- D. Carrying out gaseous exchange

Answer:



29. The epidermis of some desert plants is covered with a thick, waxy coating of a chemical called __i_. __ii__ The chemical present in the walls of cork cells. It makes them impervious to water. The information in which alternative completes the given statements?

A. i-cutin ii-suberin is

B. i-suberin ii-cutin is

C. i-cutin ii-cutin is also

D. i-suberin ii- suberin is also

Answer:



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30. Some fruits such as plum and apricot have a hard coving over their seeds. Almond fruit has a hard covering over its seeds because of the presence of

- A. parenchyma
- B. aerenchyma
- C. collenchyma
- D. sclerenchyma



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31. The alternatives in the given table can be correctly matched as

	Column A		Column B		
i	Cellulose	a	Epidermis		
ii	Suberin	b	Sclerenchyma		
iii	Lignin	c	Parenchyma		
· iv	Chitin	d	Cork		

A.
$$i
ightarrow d, ii-c, iii
ightarrow a, iv
ightarrow b$$

B.
$$i
ightarrow c, ii-d, iii
ightarrow b, iv
ightarrow a$$

C.
$$i
ightarrow b, ii-a, iii
ightarrow c, iv
ightarrow d$$

D.
$$i
ightarrow c, ii-b, iii
ightarrow a, iv
ightarrow d$$



- **32.** The given list presents some of the simple permanent tissues found in plants.
- I. Parenchyma II. Collenchyma III. Sclerenchyma
 IV. Epidermis V. Cork

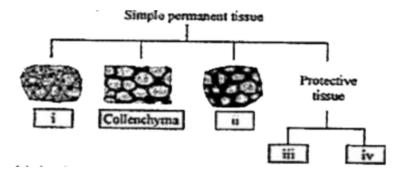
Which of the following pairs of tissues are made up of dead cells?

- A. I and III
- B. II and IV
- C. III and V
- D. I and V



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33. The given figure illustrates the types of plant tissues.



The information in which alternative correctly completes the given figure?

A. i-Sclerenchyma ii-Cork iii-Epidermis Parenchyma ii-Sclerenchyma iii-B. i-Parenchyma **Epidermis iv-Cork** C. i-Sclerenchyma ii-Cork iii-Parenchyma iv-**Epidermis** D. i-Parenchyma ii-Epidermis iii-Sclerenchyma iv-Cork

Answer:

34. _i_ conducts water and minerals from the roots to different parts of the plant. This movement of water and minerals is _ii_. The information in which alternative completes the given statements?

- A. i-xylem ii-unidirectional
- B. i-xylem ii-bidirectional
- C. i-pholem ii-undirectional
- D. i-pholem ii-bidirectional



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Conceptive Worksheet

1. The primary function of the cells of the nervous tissue is to

A. protect the internal organs

B. transmit stimulus

C. transport oxygen

D. aid in movement

Answer:



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2. The cells of the tissue that transmit stimulus are known as. The information in which alternative completes the given statement?

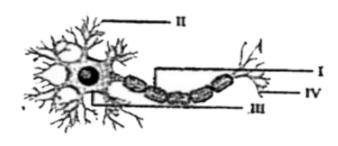
A. i-nervous ii-muscle

- B. i-muscular ii-muscles
- C. i-nervous ii-neurons
- D. i-muscular ii-neurons



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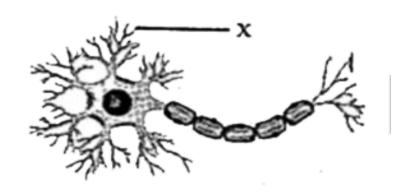
3. The given illustration represents a neuron.



In the given	illustration,	the	cell	body	of	the			
neuron is labelled as									
A. I									
B. II									
C 111									
C. III									
D. IV									
D. 1V									



4. The given illustration represents a neuron.



In the given illustration, the structure labelled X is the

A. axon

B. dendrite

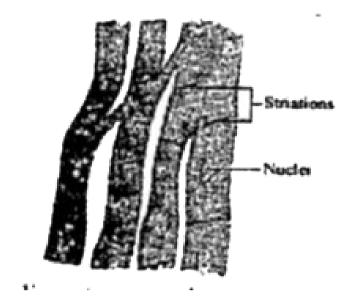
C. cell body

D. nerve ending



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5. The given illustration represents a type of muscle fibre.



The illustrated muscle fibre is present in the

A. heart

B. ureters

C. iris of the eyes

D. bronchi of the lungs



- **6.** Involuntary muscles control the movement of food in the alimentary canal. The cells of involuntary muscles are
 - A. cylindrical and uninucleate
 - B. cylindrical and multinucleate
 - C. spindle-shaped and uninucleate
 - D. spindle-shaped and multinucleate



- **7.** The cells of voluntary muscles are long, cylindrical, __i __ and __ii__. The information in which alternative completes the given statement?
 - A. i-branched ii-uninucleate
 - B. i-branched ii-multinucleate
 - C. i-unbranched ii-uninucleate

D. i-unbranched ii-multinucleate

Answer:



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8. Which of the following statements about bone is incorrect?

A. It stores fats

B. It is non-flexible and strong

C. It contains calcium and phosphorus compounds

D. It anchors muscles and protects the delicate organs of the body

Answer:



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9. Which of the following statements about blood is incorrect?

A. It transports gases to various parts of the body

B. It forms the framework of the body

C. It has a fluid matrix

D. It contains proteins

Answer:



10. The tissue found between the skin and muscles is called __i_ tissue. Fats are stored in the __ii_ tissue. The information in which alternative completes the given statements?

- A. i-areolar ii-cartilage
- B. i-areolar ii-adipose
- C. i-ligament ii-cartilage
- D. i-ligament ii-adipose

Answer:



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11. Cartilage has a solid matrix that is composed of _i_ and _ii_ .

The information in which alternative completes the given statement?

A. i-calcium ii-phosphorus

B. i-proteins ii-calcium

C. i-sugars ii-phosphorus

D. i-proteins ii-sugars



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12. Which connective tissue transports gases, nutrients, and wastes to different body parts?

- A. Bone
- B. Blood
- C. Ligament
- D. Cartilage



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13. Ligaments that connect two __i_ are a type of ii tissue.

The information in which alternative completes the given statement?

- A. i-bones ii-muscular
- B. i-muscles ii-muscular
- C. i-bones ii-connective

D. i-muscles ii-connective

Answer:



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14. What is the primary function of cuboidal epithelium?

A. To prevent wear and tear

B. To provide useful secretions

C. To prevent microbial infection

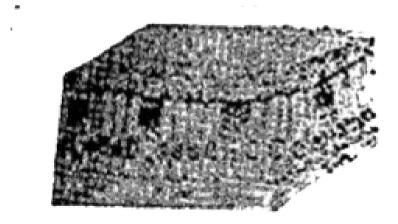
D. To provide mechanical support

Answer:



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15. The given figure represents a cell present in the inner lining of the gut.



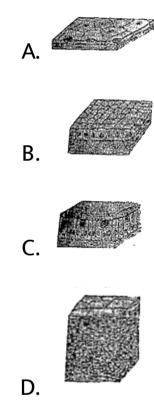
Which epithelial tissue is represented in the given figure?

- A. Stratified squamous epithelium
- B. Simple squamous epithelium
- C. Columnar epithelium
- D. Cuboidal epithelium

Answer:



16. Which illustration represents stratified squamous epithelium?



Answer:



17. Which epithelial tissue forms the lining of the mouth?

A. Stratified squamous

B. Simple squamous

C. Columnar

D. Cuboidal

Answer:



18. The linings of __i_ and the ducts of salivary glands are formed by __ii_ epithelium, which provides mechanical support to these structures. The information in which alternative completes the given statement?

A. i-kidney tubules ii-tubules

B. i-lung alveoli ii-columnar

C. i-kidney tubules ii-cuboidal

D. i-lung alveoli ii-cuboidal



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19. Which type of epithelium is present in the inner lining of the intestine?

- A. Stratified squamous
- B. Simple squamous
- C. Columnar
- D. Cuboidal



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20. Simple squamous epithelial cells are extremely _i_ and _ii_.

The information in which alternative completes the given statement?

A. i-thick ii-columnar

B. i-thick il-flat

C. i-thin ii-columnar

D. i-thin ii-flat

Answer:



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21. The xylem is a complex permanent tissue, which is made of four different components. The tracheids and vessels are made up of dead cells and help in the vertical transportation of water and minerals.

Which type of cells makes up the tracheids and vessels?

- A. Aerenchyma
- B. Collenchyma
- C. Chlorenchyma
- D. Scler enchyma

Answer:



22. In an experiment to study parasitism in rice plants, it was found that a species of fungi was able to penetrate the stem of rice plant. The fungi produced chemicals which degraded

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

Answer:



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23. Which tissue constitutes the husk of a coconut?

A. Aerenchyma

B. Collenchyma

C. Sclerenchyma

D. Chlorenchyma

Answer:



24. Collenchyma consists of __i_ cells that have __ii__ intercellular spaces between them.

The information in which alternative completes the given statement?

A. i-dead ii-no

B. i-dead ii-small

C. i living ii-no

D. i-living ii-small

Answer:

25. __i__ is a type of complex permanent tissue that helps in the bi-directional transportation of __ii__ in plants. The information in which alternative completes the given statement?

A. i-pholem ii-food

B. i-pholem ii-water

C. i-xylem ii-food

D. i-xylem ii-water

Answer:



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26. In plants, water and minerals are primarily transported through

- A. tracheids and vessels
- B. tracheids and sieve-tubes
- C. vessels and companion cells
- D. sieve tubes and companion cells

Answer:



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27. Phloem is a type of complex permanent tissue that helps in the translocation of food.

Which component of phloem consists of dead cells?

A. Sieve tube

B. Phloem fibre

C. Companion cell

D. Phloem parenchyma

Answer:



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28. Sieve tubes and companion cells are components of

A. xylem

B. phloem

C. collenchyma

D. parenchyma

Answer:



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29. In xylem, __i_ helps in the sideways conduction of water and __ii__ play a supportive role. The information in which alternative completes the given statement?

A. i-vessel ii-tracheids

- B. i-tracheids ii-parenchyma
- C. i-parenchyma ii-fibres
- D. i-fibres ii-vessels

Answer:



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30. The structural components that conduct water and nutrients vertically in xylem are __i_ and __ii__ . The information in which alternative completes the given statement?

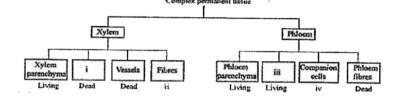
- A. i-companion cells ii-tracheids
- B. i-companion cells ii-sieve tubes
- C. i-vessles ii-sieve tubes
- D. i-vessels ii-tracheids

Answer:



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31. The given figure represents the different types of complex permanent tissue in plants.



The information in which alternative correctly completes the given flowchart?

- A. i- Tracheids ii- Living iii-Sieve tube iv-Dead
- B. i-Sieve tube ii-Dead iii-Tracheids iv-Dead
- C. i-Tracheids ii-Dead iii-Sieve tube iv-Living
- D. i-Sieve tube ii-Living iii-Tracheids iv-Living

Answer:



32. The flow of food material in phloem is __i_ and the cells of __ii_ aid in this transport. The information in which alternative completes the given statement?

- A. i-bidirectional ii-sieve tubes
- B. i-unidirectional ii-phloem fibres
- C. i-bidirectional ii-phloem fibres
- D. i-unidirectional ii-sieve tubes

Answer:

Summative Worksheet I

1. Which of the following is a protective tissue?

A. Muscular tissue

B. Connective tissue

C. Epithelial tissue

D. Nervous tissue

Answer:

2. The tissue which forms the internal lining of organs is

A. Nervous tissue

B. Epithelial tissue

C. Connective tissue

D. A muscle

Answer:



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- 3. Nervous tissue consists of
 - A. Nerve cells
 - **B.** Tendons
 - C. Cyton
 - D. Lymph

Answer:



4. Short branching structures arising from the	าе
cell body of a neuron are called	

- A. Axons
- B. Cyton
- C. Dendrites
- D. Lymph

Answer:



5. The muscles which take part in breathing movements are

A. Involuntary museles

B. Cardiac muscles

C. Voluntary muscles

D. All the above

Answer:



- 6. Muscles found in heart are
 - A. Voluntary muscles
 - B. Cardiac muscles
 - C. Involuntary muscles
 - D. All the above

Answer:



_	 •	C I	•	•	•	
/.	lissues	tound	ın	growing	regions	are

- A. Meristematic tissues
- B. Complex tissues
- C. Simple tissues
- D. Permanent tissues

Answer:



8. Meristematic tissues have

A. small, thin-walled cells rich in cytoplasm

B. Small, thick-walled cells

C. Dead cells

D. Cells which can divide for a short period

Answer:



9. Sclerenchyma is a

A. Thick-walled tissue consisting of dead cells

B. Thick-walled tissue consisting of living cells

C. Thin-walled, living cells

D. None of the above

Answer:



10. Vascular tissues in a plant are

- A. Xylem and phloem
- B. Xylem, phloem and epidermis
- C. Only xylem
- D. Only phloem

Answer:



Summative Worksheet Ii Fill In The Blank

1. About two-third of the body weight is made up of ____ tissue.



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2. Bone is a type of ____ tissue.



3. Nerve cells are also called						
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4. Nerve cells are found in and						
Watch Video Solution						
5. muscles are found in the walls of stomach and intestine.						
Watch Video Solution						

6. Cells are living, elongated and thickened at the corners in ____ tissue.



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7. Xylem and phloem constitute ____ tissue in a plant body.



8. Water moves upward inside the plant body through ____ tissue.



9. Movement of food material in the plant body takes place through ____ tissue.



10. Permanent tissues arise from ____ tissues.



11. Cells of ____ tissue bring about increase in plant length.



Summative Worksheet Iii

1. Name the different types of animal tissues.



2. Describe the structure and functions of different types of animal tissues.



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3. How is connective tissue different from other tissues?



4. Mention the main characteristics of meristematic tissues.



5. Where are the location of meristematic tissue in plants?



6. What is the function of meristematic tissue?



7. Name the different types of plant tissues.



8. Where are stomata present in a plant cell?



9. State the function of stomata?



10. Name the tissue which takes part in the movement of water and minerals in the body.



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Summative Worksheet Iv

1. Differentiate between

Parenchyma and Collenchyma



2. What is the difference between collenchyma and sclerenchyma?



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3. Differentiate between

Skeletal muscle tissue and Cardiac muscle tissue.



4. Differentiate between

Squamous epithelium and Columnar epithelium



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5. Differentiate between cells of Meristematic tissue and permanent tissue



6. Differentiate between

Simple and Complex tissues.



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Summative Worksheet V

1. Name the tissue found in the following:

At the tips of root and stem



2. Name the tissue found in the following:

On the surface of roots



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3. Name the tissue found in the following:

Lining of stomach



4. Name the tissue found in the following:

Wall of heart



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5. Name the tissue found in the following:

Blood



6. Name the tissue found in the following:

Brain



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7. Name the tissue found in the following:

Mango peel



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Summative Worksheet Vi

1. Find the odd one out, giving reasons:

Cyton, dendrite, plasma, axon



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2. Find the odd one out, giving reasons:

Bone, cartilage, tendon, blood



3. Find the odd one out, giving reasons:

Bone, epithelium, tendon, cartilage



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4. Find the odd one out, giving reasons:

Xylem, collenchyma, parenchyma,

sclerenchyma



5. Find the odd one out, giving reasons:

Vessels, companion cells, sieve tubes, collenchyma.



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Summative Worksheet Vii Mark T True Or F False

1. Meristematic cells are small and thin-walled.



2. Cells of the permanent tissues lack the property of division.



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3. Permanent tissue is an immature tissue.



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4. Stomata are present in the ground tissue of the leaf.



5. Xylem tissue is made of sieve tubes.



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6. Epithelial tissue is a protective tissue.



7. Muscular tissues show the property of contraction and expansion.



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8. Cyton and axon are the parts of a nerve cell.



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9. The fluid part of the blood is called plasma.



10. Sclerenchyma consists of thick-walled dead cells.



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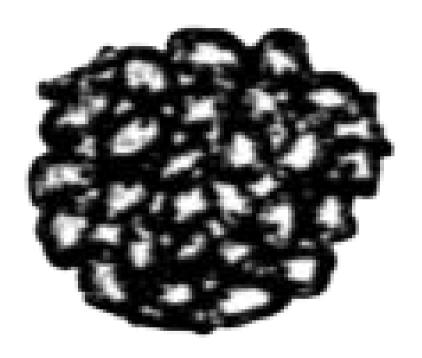
11. Phloem is a complex tissue.



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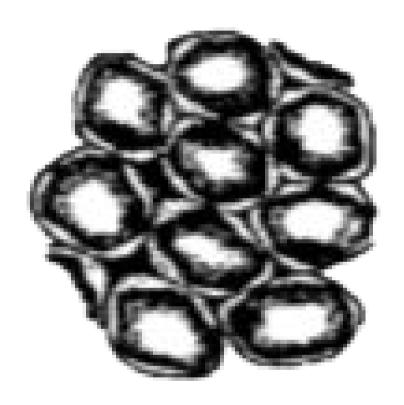
Summative Worksheet Viii

1. See the figure shown below. Identify this figure giving reasons.



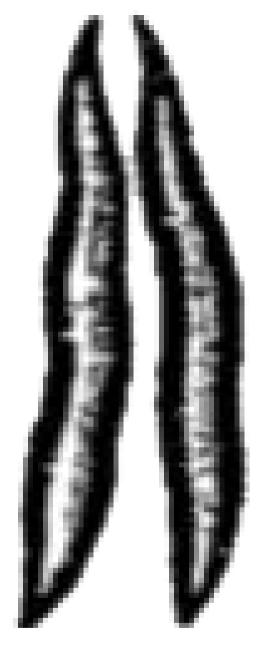


2. See the figure shown below. Identify this figure giving reasons.





3. See the figure shown below. Identify this figure giving reasons.





4. See the figure shown below. Identify this figure giving reasons.

