

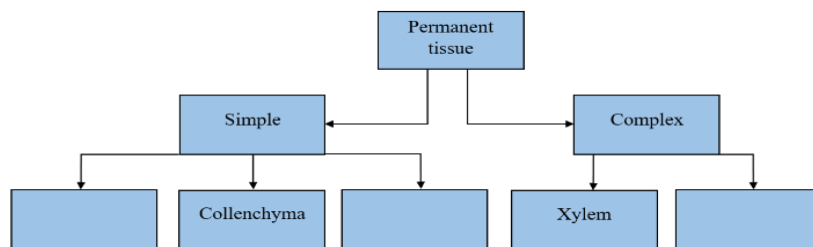


SECTION - A

1	Who discovered cell? a) Robert Hooke b) Robert Brown c) Anton Leeuwenhoek d) Schleiden & Schwann	
2	Which plastids are colourless? a) Chromoplasts b) Chloroplast c) Leucoplasts d) All of the above	
3	Which Organelle of cell is known as "Power House"? a) Lysosome b) Mitochondria c) Centriole d) Chromosome	
4	_____ is called the energy currency of the cell a) Endoplasmic reticulum b) Oxygen c) ATP d) Mitochondria	
5	Which of the following statements is incorrect? a) Cytoplasm is also known as protoplasm b) Lysosomes are known as the suicide bags of the cell c) Mitochondria has its own DNA d) All of the above are incorrect	
6	Which of the following can be made into crystal? a) A bacterium b) An Amoeba c) A virus d) A sperm	
7	Chromosomes are made up of a) DNA b) Protein c) DNA and protein d) RNA	
8	Which of these is not related to endoplasmic reticulum? a) It behaves as a transport channel for proteins between nucleus and cytoplasm. b) It transports materials between various regions in the cytoplasm. c) It can be the site of energy generation. d) It can be the site for some biochemical activities of the cell.	
9	Following are a few definitions of osmosis. Read carefully and select the correct definition. a) Movement of water molecules from a region of higher concentration to a region of lower concentration through a semi-permeable membrane. b) Movement of solvent molecules from its higher concentration to lower concentration. c) Movement of solvent molecules from higher concentration to lower concentration of solution through a permeable membrane. d) Movement of solute molecules from lower concentration to higher concentration of solution through a semi permeable membrane.	

10	<p>Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell?</p> <p>a) Golgi apparatus b) Lysosomes c) Smooth endoplasmic reticulum d) Vacuoles</p>	
11	<p>Which of the following tissues has dead cells?</p> <p>a) Parenchyma b) Sclerenchyma c) Collenchyma d) Epithelial tissue</p>	
12	<p>Vertical growth in plants takes place by –</p> <p>a) Lateral meristem b) apical meristem c) Intercalary meristem d) none of the above</p>	
13	<p>Growth of stem increases due to</p> <p>a) apical meristem b) lateral meristem c) intercalary meristem d) vertical meristem</p>	
14	<p>A person met with an accident in which two long bones of the hand were dislocated. Which among the following may be the possible reason?</p> <p>a) Tendon break b) Break of skeletal muscle c) Ligament break d) Areolar tissue break</p>	
15	<p>Cartilage is not found in</p> <p>a) nose b) ear c) kidney d) larynx</p>	
16	<p>Which one is not a source of carbohydrate?</p> <p>a) Rice b) Millets c) Sorghum d) Gram</p>	
17	<p>Which one of the following species of honeybee is an Italian species?</p> <p>a) <i>Apis dorsata</i> b) <i>Apis florae</i> c) <i>Apis cerana indica</i> d) <i>Apis mellifera</i></p>	
18	<p>Find out the correct sentence.</p> <p>(i) Hybridisation means crossing between genetically dissimilar plants (ii) Cross between two varieties is called as inter specific hybridisation (iii) Introducing genes of desired character into a plant gives genetically modified crop (iv) Cross between plants of two species is called as inter varietal hybridisation</p> <p>a) (i) and (iii) b) (ii) and (iv) c) (ii) and (iii) d) (iii) and (iv)</p>	
19	<p>Which of the following are Indian cattle?</p> <p>(i) <i>Bos indicus</i> (ii) <i>Bos domestica</i></p>	

	(iii) Bos bubalis (iv) Bos vulgaris a) (i) and (iii) b) (i) and (ii) c) (ii) and (iii) d) (iii) and (iv)	
20	Which one of the following nutrients is not available in fertilisers? a) Nitrogen b) Phosphorus c) Iron d) Potassium	
SECTION - B		
21	Can you name the two organelles we have studied that contain their own genetic material?	
22	Why is the plasma membrane called a selectively permeable membrane?	
23	Why are lysosomes known as suicide bags?	
24	What would happen if the plasma membrane ruptures or breaks down?	
25	How is a prokaryotic cell different from a eukaryotic cell?	
26	What is a Tissue?	
27	What is the function of Tendon and ligament?	
28	Name the following: a) Tissue that forms the inner lining of our mouth. b) Tissue that connects muscle to bone in humans. c) Tissue that transports food in plants. d) Tissue that stores fat in our body. e) Connective tissue with a fluid matrix. f) Tissue presents in the brain.	
29	How does the cork act as a protective tissue?	
30	Draw a well labelled diagram of neuron.	
31	Differentiate the following activities on the basis of voluntary or involuntary: A. Jumping of frog B. Pumping of the heart C. Writing with hand D. Moving of chocolate in stomach	
32	What are the benefits of poultry farming over cattle farming?	
33	What is genetic manipulation? How is it useful in agricultural practices?	
34	Differentiate between mixed cropping and Intercropping.	
35	List the various methods of weed control.	
SECTION- C		
36	Draw only Labelled Diagram of Animal cell & Plant cell.	
37	Why Plant cells are more rigid than animal cells?	
38	How do substances like CO ₂ and water move in and out of the cell? Discuss.	
39	Explain: Plastids	
40	Explain: Cell division	
41	What is the utility of tissues in multi-cellular organisms?	
42	Diagrammatically show the difference between the three types of muscle fibres.	
43	Complete the table:	



44	What are the major functions of blood?
45	Write about the functions of, 1) Epidermis 2) Cork 3) Stomata
46	Differentiate between meristematic and permanent tissue.
47	What are the components of cattle feed?
48	What are the symptoms of diseased animals?
49	Discuss the implications of the following statement: “It is interesting to note that poultry is India’s most efficient converter of low fibre food stuff (which is unfit for human consumption) into highly nutritious animal protein food.”
50	Name three basic scientific approaches for increasing yield of a crop.
SECTION-D	
51	Draw only Labelled Diagram of Animal cell & Plant cell.
52	Explain in brief: (i) Golgi Apparatus (ii) Lysosomes
53	Describe with labelled diagram: Complex permanent Tissue
54	Describe: Epithelial Tissue
55	Describe Inland Fisheries in brief.
SECTION- E	
56	Describe: (i) Plasma Membrane (ii) Mitochondria
57	Explain Nucleus in brief.
58	Describe Meristematic Tissue with labelled diagram.
59	Explain: Connective Tissue in brief.
60	Explain: Nervous Tissue in brief.