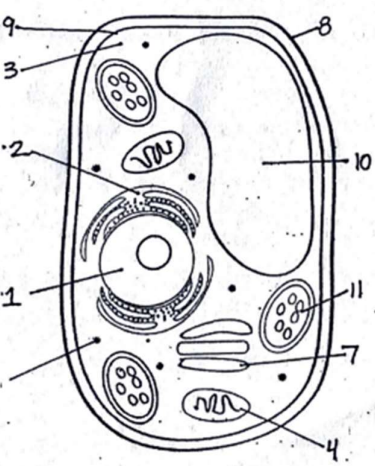
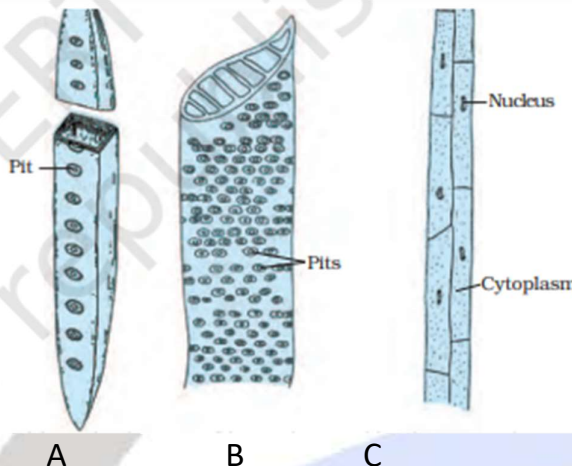


TEST CLASS 9 BIOLOGY FULL SYLLABUS
Marks: 50
Time: 1hr

1	<p>Read the paragraph given below and answer the following questions.</p> <p>The meristematic tissue is a type of tissue found in plants that consists of undifferentiated cells capable of cell division. Cells of the meristematic tissue can develop into all the other tissues and organs that occur in plants. These cells continue to divide until a time when they get differentiated and then lose the ability to divide. Meristematic tissues are living, thin-walled tissues. The cells' protoplasm is extremely thick. Meristematic tissues are responsible for plant growth. They are present at the tips of root, stem and branches.</p> <p>a. When the meristematic tissue loses the ability to divide, it gives rise to which type of plant tissues?</p> <p>b. Besides a thick protoplasm/ dense cytoplasm, which other feature marks the cells of the meristematic tissue?</p> <p>c. What kind of meristem is found at the tips of roots, stem and branches?</p> <p>d. What do you understand by the term 'undifferentiated'?</p> <p>e. State one function of the meristematic tissue?</p>	5
2	<p>Look at the picture below and answer the questions that follow.</p> <p>Look at the picture below and answer the questions that follow.</p> 	4

	<p>a. State one function of the cellular component labelled 1?</p> <p>b. Name two organelles that are present in this cell but are not present in an animal cell.</p> <p>c. Why do different cells have different shapes?</p> <p>d. What is the outermost covering of this cell?</p>	
	<p>Q. 3-5 are Assertion - Reasoning based questions. These consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:</p> <p>(a) Both A and R are true and R is the correct explanation of A</p> <p>(b) Both A and R are true and R is not the correct explanation of A</p> <p>(c) A is true but R is false</p> <p>(d) A is False but R is true</p> <p>(e) Both A and R are false</p>	
3	<p>Assertion : Most of the plant tissues are dead.</p> <p>Reason : Due to the sedentary existence of plants, dead cells provide mechanical strength more easily than live ones and need less maintenance</p>	1
4	<p>Assertion : The endoplasmic reticulum which lacks ribosomes is called smooth endoplasmic reticulum</p> <p>Reason : SER is mainly involved in protein synthesis.</p>	1
5	<p>Assertion (A): The process of taking permanent shape, size and function by cells is called differentiation.</p> <p>Reason (R): Cells of sclerenchyma differentiate to form different types of tissues in plants.</p>	1
6	<p>Name the connective tissue which helps in the repair of tissues. State where this tissue is found. Mention one more function of this tissue.</p>	3
7	<p>Identify the following cell organelles:</p> <p>(a) They contain cell sap and are called storage sacs of the cell</p> <p>(b) A plastid which contains pigments other than chlorophyll</p> <p>(c) These are involved in formation of lysosomes</p> <p>(d) It helps in building of cell membrane</p>	2

8	a) Name the process by which movement of water takes place across cell membrane. b) If cells of onion peel and RBCs are kept separately in a hypotonic solution, both gain water but one will burst and the other will not. Name the cell which will burst and the one which resist bursting. Give reason for your answer.	2
9	Give reasons (2 points for each): a) Change in maturity duration effectively helps in increasing crop production. b) Desirable agronomic traits in different crops may vary.	2
10	Give two examples of each of micronutrients and macronutrients. What is the source of these nutrients? What happens if there is a deficiency of these nutrients?	2
11	Why should preventive measures and biological control methods be preferred for protecting crops?	1
12	What is Composite fish culture? Explain with an example. What are its merits and demerits?	3
13	Differentiate between – a) Intercropping and crop rotation b) Broilers and layers c) Chromosome and chromatin d) Mitosis and meiosis e) Vermicompost and Green manure	10
14	Name: a) An Exotic variety of cattle b) Scientific name of indian poultry c) An infectious disease of cattle d) Non-fish animals cultured in fisheries	2
15	a) With a labelled diagram, show the structure of cardiac muscle. b) Which type of muscle tissue is found in the iris? Why? c) Why is striated muscle called skeletal muscle?	3
16	Give one reason for the following : (a) Endocytosis is found only in animal cell. (b) Cell is called the fundamental unit of life (c) Liver cells of vertebrates are rich in SER	5

	(d) Vacuoles are important for plant cells (e) Fungal cells can survive in hypotonic conditions	
17	 <p>A B C</p> <p>Given above are the components of plant complex tissue called xylem. Identify A, B and C. why is this tissue called complex tissue? What is the function of C?</p>	3