



# JINDAL VIDYA MANDIR, JSW HILL SIDE TOWNSHIP

## Syllabus Bifurcation: 2025-26

**Subject: Biology**

**Class: IX**

**Term: I**

Sl No.	Month	W D	ID	No. of Periods	Chapter/Units	Learning Objectives	Activities	Assessment Methods	Portion for WT/PT/Term/AE
1	March	5	5	2	5. The fundamental unit of life	Cognize the variety in shape and size of cells in different organisms and infer that cells are functionally similar despite structural differences.	Activity:- Getting to know the microscope: Its parts and how to use it right!	Oral Test, Think-pair and share	
2	April	13	13	4	5. The fundamental unit of life	<ul style="list-style-type: none"> <li>Demonstrate the difference between animal and plant cells with appropriate experiments.</li> <li>Compare a Prokaryotic and an Eukaryotic cell</li> <li>Locate different cell organelles in a plant cell and state their functions.</li> <li>Describe the structure and functions of Plasma membrane, cell wall and nucleus.</li> </ul>	Observing the cells of onion peel and cheek	3-2-1 Format: Students write three things they learned, two things that surprised them, and one question they still have.  Worksheet	
3	June	20	20	7	5. The fundamental unit of life	<ul style="list-style-type: none"> <li>Differentiate between types of endoplasmic reticulum and identify their functions.</li> <li>Name the cell organelle</li> </ul>	Preparation of temporary slide of plant cell.	Concept Mapping, Class test and question-and-answer sessions	Weekly Test Portion: 27/6/25 :Cell as a basic unit of life , Cell Theory , and Types of

						<p>responsible for storage, modification and packaging of products in a cell</p> <ul style="list-style-type: none"> <li>• Explain the functioning of Mitochondria in a cell.</li> <li>• Locate the cell organelle that helps cells prepare their food.</li> <li>• Elaborate the role of chromosomes during cell division.</li> <li>• Relate the role of vacuoles in a cell.</li> </ul>	Study of plasmolysis.		cells
4	July	25	21	7	6.Tissues	<ul style="list-style-type: none"> <li>• Describe the locations and function of meristematic tissue plants.</li> <li>• Classify the meristematic tissue based on their location in the plant body.</li> <li>• Identify the type of simple permanent tissues and their functions in a plant.</li> <li>• Identify the type of complex permanent and their role in a plant.</li> <li>• Classify different animal tissues based on their functions in the body</li> <li>• Correlate the structure of epithelial tissues to their functions in an organism.</li> <li>• Describe different types of connective tissues and relate their structure to specific functions.</li> </ul>	<p>Practical class: Study of meristems in dicot plant</p> <p>Study of TS of dicot stem</p> <p>Study of TS of monocot stem</p> <p>Observation of meristem using temporary mount.</p> <p>Observation of parenchyma, collenchyma, sclerenchyma</p> <p>Observation of sclerenchyma fibre,</p>	Work sheet, Class test, Concept map	PT-1 ( Portion: The Fundamental Unit of Life)

							chlorenchyma and aerenchyma.		
5	August	20	20	7	<p>6. Tissues</p> <p>12.Improvement in Food Resources- Crop Production till Crop Protection Management</p>	<ul style="list-style-type: none"> <li>Compare the structure of different types of muscular tissues and relate it to their functions.</li> <li>Describe the structure of a neuron and explain the functioning of nervous tissue.</li> <li>Identify the nutrients present in different foods, in order to have a balanced diet</li> <li>Recognize growth needs of different crops like temperature, in order to produce them effectively</li> <li>Discover ways of breeding a better variety of seeds, in order to improve quality of crops</li> <li>Enlist various ways of enriching the soil in order to increase crop yield</li> <li>List down ways of irrigating a piece of land, in order to provide adequate water to all crops</li> <li>Analyze ways/ combinations of growing crops in order to maximize yield</li> </ul>	<p>Practical: Identification of animal tissue slides, Identification of specimen draw &amp; label tissues.</p>	<p>Concept map, Class test, Think-pair-share, question-and-answer sessions</p>	<p>Weekly Test portion : 13/8/25: Plant Tissues</p>

						<ul style="list-style-type: none"> <li>• Describe ways/ organisms by which crops get affected, in order to develop a solution to prevent them from attacking crops</li> <li>• Develop better storage strategies for crops, in order to minimize storage losses</li> </ul>			
6	September	20	14	5	Revisions for Term1 Exams				Portion: The Fundamental Unit of Life and Tissues

## Term II

7	October	19	19	6	Improvement in Food Resources - Animal Husbandry	<ul style="list-style-type: none"> <li>• List down some characteristics local and Foreign breeds of cattle, in order to develop a cattle with desired qualities</li> <li>• Outline food requirements and common diseases of cattle, in order to protect them better</li> <li>• Analyze desirable traits in poultry in order to maximize egg production and chicken meat</li> <li>• Identify housing, nutritional &amp; environmental requirements of poultry in order to prevent and control diseases</li> <li>• Analyze the process of</li> </ul>		Concept map, Class test, Think-pair-share, question-and-answer sessions	
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						catching fish from seawater and fresh water, in order to maximize yield <ul style="list-style-type: none"> <li>• Name different varieties of bees and examine their traits, in order to maximize output</li> </ul>			
8	November	22	22	7	Revisions for Annual exams			Revision Test	Weekly Test Portion :6/11/25 Animal Husbandry
9	December	26	26	9	Revisions for Annual exams			Revision Test	
10	January	22	18	6	Revisions for Annual exams			Revision Test	PT 2 Portion: Improvement in Food Resources Weekly Test:24/1/26 Portion : Animal Husbandry
11	February	23	22	7	Revisions for Annual exams			Revision Test	
12	March				Annual Exam				AE Portion: Ch 5,6 and 12