



JINDAL VIDYA MANDIR, JSW HILL SIDE TOWNSHIP

Syllabus Bifurcation: 2025-26

Subject: Biology

Class: X

Annual Examination – 2025-26

Sl No.	Month	WD	ID	No. of Periods	Chapter/Units	Learning Objectives	Activities	Assessment Methods	Portion for WT/PT/Term/AE
1	March	5	5	2	Bridge course				
				2	Ch 5 - Life Process (Introduction)	Define life process and list examples of vital life processes in living organisms		Oral test	
2	April	13	13	6	Ch 5 - Life Process (Nutrition in plants and animals)	<ul style="list-style-type: none"> Describe the process of nutrition in plants(autotrophic) and animals (heterotrophic , including human digestive steps 	Lab Activity - .Preparing a temporary mount of a leaf peel to show stomata	Oral test/quiz , Class test (pen paper test)	
3	June	20	20	6	Ch. 5- Life Process (Respiration , excretion, transportation in animals and plants)	<ul style="list-style-type: none"> Describe the Heterotrophic mode of nutrition Differentiate between aerobic and anaerobic respiration with example Compare circulatory system in humans and other 	(SEA 1) - Observati on of chloroplas t , stomata and changes during photosynt hesis in plants and diagramati cally	Oral test/quiz , Class test (pen paper test)	

					<p>organisms</p> <ul style="list-style-type: none"> • Illustrate the structure of Human heart • Analyse how different organisms carry out life process based on their body structure 	<p>representing it with detailed explanation on a chart paper.</p>		
						<p>Lab Activity - Experimentally demonstration to show that carbon dioxide is given out during respiration.</p>		
				Ch 6 Control and Co-Ordination	<ul style="list-style-type: none"> • Contrast the Need for Control and Coordination: • Recognize why living organisms need control systems to respond to stimuli and maintain internal balance. • Explore the Human Nervous System: • Analyze coordination in 	<p>Reflex Action Demonstration</p> <p>To observe Tropism movement in Plants</p>	Oral test/quiz , Class test (pen paper test)	

						<p>Plants:</p> <ul style="list-style-type: none"> Identify plant hormones (auxins, gibberellins, cytokinins, abscisic acid, ethylene) and their functions. Explore Chemical Coordination in Animals: Analyze how different systems in the body work together for proper functioning. Discuss the consequences of imbalances or malfunctions in coordination systems 			
4	July	25	25	6	Ch. 7- How do organisms reproduce.	<ul style="list-style-type: none"> Interpret the importance of reproduction in living organisms. Differentiate between asexual and sexual 	Lab Activity - Studying binary fission in Amoeba and Budding in yeast and Hydra with the	Oral test/quiz , Class test (pen paper test)	T1-Weekly test 5 (Ch. 5) Date - 02-07-2025 PT- I (Ch 5,6)

						<p>reproduction.</p> <ul style="list-style-type: none"> • Illustrate how plants and simple organisms reproduce (e.g., budding, fission, spore formation). • Discuss the reproduction in humans – structure and function of male and female reproductive systems. • Contrast about fertilization, pregnancy, and birth. • Awareness of puberty, reproductive health, and methods of contraception. 	help of prepared slides.		
5	August	20	20	4	Ch 8 - Hereditary .	<ul style="list-style-type: none"> • Define heredity and genes with relevant examples. • Identify Mendel's laws of inheritance 	Lab activity - Identification of different parts of an embryo of	Oral test/quiz , Class test (pen paper test)	T1-Weekly test – 12 (Ch 7) - 22-08-2025

						<p>using simple cross experiments.</p> <ul style="list-style-type: none"> • Explain the terms dominant, recessive, genotype, phenotype, and allele. • Predict outcomes of monohybrid crosses using Punnett squares. • Differentiate inherited traits from acquired traits. • Interpret basic family traits and heredity patterns. • Describe how sex is determined in humans. 	a dicot seed (Pea , gram or red kidney bean) .		
6	Sep	20	12	6	Revision - Term I			Oral test/quiz , Class test (pen paper test)	Term I (Ch 5 , 6 , 7)
7	Oct	19	19	6	Ch 13 - Our Environment	<ul style="list-style-type: none"> • Define ecosystem, food chain, and food web. 	SEA 2 - Preparing a ppt on flow of energy in	Oral test/quiz , Class test (pen paper test)	

						<ul style="list-style-type: none"> • Identify the components of an ecosystem (biotic and abiotic). • Classify organisms as producers, consumers, and decomposers. • Trace the flow of energy through a food chain using 10% law. • Differentiate between biodegradable and non-biodegradable substances. • Describe the harmful effects of non-biodegradable waste (e.g., plastic). • Explain the impact of human activities on the environment (e.g., ozone layer depletion, pollution). • Suggest methods to 	eco system		
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						reduce environmental pollution and promote sustainability.			
8	Nov	22	22	7	Revision for Board examination			Oral test/quiz , Class test (pen paper test)	T2-Weekly test 5 (Ch 8) Date - 13-11-2025 Pre-board -1 (Ch 5 , 6 , 7 , 13)
9	Dec	26	26	9	Revision for Board examination			Oral test/quiz , Class test (pen paper test)	
10	Jan/Fe b	22	17	6	Revision for Board examination			Oral test/quiz , Class test (pen paper test)	Pre-board -2 (Ch 5 , 6 , 7 ,8, 13)/PT – 2 (Ch 8 , 13) T2-Weekly test 12 (Ch 13) Date - 31-01-2026
12	Feb/M arch	22	22		Grade 10 Board Examination			Oral test/quiz , Class test (pen paper test)	Board examination (Ch. 5 , 6 , 7 ,8, 13)