

EXAMINATION SYLLABUS 2020-2021

Grade: IX Subject: Biology

This exam syllabus is produced to facilitate teachers, students and the test setters to teach, learn and assess subject specific learning. This syllabus is condensed to align the course content with the teaching learning time during. COVID 19.

DETAIL SYLLABUS

TOPICS / THEMES	Sub Topic	TEXT BOOK PAGE NUMBER	COGNITI VE LEVELS		
			K	U	A
Introduction to Biology	 Definition of Biology Division & Branches of Biology Relationship of Biology with other Sciences Quran Instructs to reveal the study of life 	PAGE NO 2 PAGE 2-4 PAGE 4-5 PAGE 6-7	✓ ✓ ✓ ✓	✓	
1. Solving a Biological Problems	5. The level of organization ✓ Biological Methods/Scientific Problem ✓ Observation ✓ Hypotheses ✓ Deductions ✓ Experiments ✓ Result ✓ Theory, law and principal	PAGE NO 19-23 PAGE NO 20 PAGE NO 21 PAGE NO 21-22 PAGE NO 22 PAGE NO 23 PAGE NO 23 PAGE NO 23	\[\lambda \times \\ \lambda \times		
2. Biodiversit y	 ✓ Definition and Introduction of Biodiversity ✓ Aims & Principles of Classification ✓ The Five Kingdoms Classification ✓ Binomial Nomenclature ✓ Conservation of Biodiversity 	PAGE NO 30 PAGE NO 32-34 PAGE NO 36-40 PAGE NO 40-41 PAGE NO 41-46	\(\sqrt{\sq}}}}}}}\sqrt{\sq}}}}}}}}}\signt{\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
3. Cells and Tissues	 Microscope and Emergence of Cell Theory Cellular Structures and Functions Difference in prokaryotic and eukaryotic cells Diffusion Osmosis Exocytosis 	PAGE NO 52-55 PAGE 61 PAGE NO 59-60 PAGE NO 65 PAGE NO 65-67 PAGE 65-67	✓ ✓ ✓	√ √ √ √ √ √ √	1

	7. Endocytosis	PAGE NO 78-83	✓	✓	
	8. Animal tissues	PAGE NO 83-87			
	9. Plant tissues				
4. Cell Cycle	Chromosomes Structures and	PAGE NO 93-94	✓	✓	
	Function				
	2. Mitosis	PAGE NO 96-98			
	3. Necrosis and Apoptosis	PAGE NO 98			
	4. Meiosis	PAGE NO 98-103			
5. Enzymes	Definition and Characteristics of Enzymes	PAGE NO 108-111	✓	√	
6. Bioenergeti	Introduction and Role of ATP	PAGE NO 120-121	✓	✓	
cs	2. Photosynthesis	PAGE NO 121-128	✓	✓	
	3. Respiration	PAGE NO 128-132	✓	✓	
	Aerobic Respiration, Anaerobic	PAGE NO 128-132	✓	✓	
	Respiration.				
7. Nutrition	Introduction of Nutrition	PAGE NO 139	✓		
	2. Heterotrophic Nutrition	PAGE NO 140-141	✓		
	Digestion in Man	PAGE NO 160-169	✓		
8. Transport	1. Transport in Plants	PAGE NO 175-178	✓	✓	
	2. Transpiration and its Significance	PAGE NO 178-182	✓	✓	
	3. Transport in Animals	PAGE NO 185-186	✓	✓	
	4. Transport in Man	PAGE NO 186-190	✓	✓	
	5. Blood Disorders	PAGE NO 190-191	✓		
	6. Human Heart	PAGE NO 191-195	✓	✓	