

Pakistan School System- Oman
Syllabus / SLOs Coverage plan (2022-23)

Grade:	IX			Subject:	Biology		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April - 2022.					
1	5	3 to 7	INTRODUCTION TO BIOLOGY	.April-3	1.1.1 Definition of Biology. Introduction.	4%	
				.April-4	1.1.2 Divisions and Branches of Biology		
				.April-5	1.1.3 Relation of Biology to other sciences		
				.April-6	1.1.4 Quran instructs to reveal the study of Life		
				.April-7	1.2 The Levels of Organization		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April - 2022.					
2	5	10 to 14	SOLVING A BIOLOGICAL PROBLEM	.April-10	2.1 Biological Method	8%	
				.April-11	2.1.1 Scientific problem, Hypotheses, Deductions and Experiments		
				.April-12	2.1.2 Theory, Law and Principle		
				.April-13	2.1.3 Data organization and Data analysis		
				.April-14	2.1.4 Mathematics as an integral part of the Scientific Process		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April - 2022.					
3	5	17 to 21	BIODIVERSITY	.April- 17	3.1 Definition and Introduction of Biodiversity	12%	
				.April- 18	3.2 Aims and Principles of Classification		
				.April- 19	3.3 History of Classification Systems		
				.April- 20	3.3.1 Two-Kingdom Classification System		
				.April- 21	3.3.2 Three-Kingdom Classification System		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April - 2022.					

4	5	24 to 28	BIODIVERSITY	.April- 24	3.3.3 Five-Kingdom Classification System	16%	
				.April- 25	3.4 The Five Kingdoms		
				.April- 26	3.5 Binomial Nomenclature		
				.April- 27	3.5 Binomial Nomenclature		
				.April- 28	3.6 Conservation of Biodiversity		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		May - 2022.					
5	2	01 to 5	CELLS AND TISSUES	.May-1	4.1 Microscopy and the Emergence of Cell Theory	17%	
				.May-2	4.1.1 Light microscopy and Electron microscopy		
				.May-3	Eidul Fitr- Holidays		
				.May-4			
				.May-5			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		May - 2022.					
6	5	8 to 12	CELLS AND TISSUES	.May - 8	4.1.2 History of the formulation of cell theory	22%	
				.May - 9	4.2 Cellular Structures and Functions		
				.May - 10	4.2.1 Structures and Functions of cell Organelles		
				.May - 11	4.2.1 Structures and Functions of cell Organelles		
				.May - 12	4.2.1 Structures and Functions of cell Organelles		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		May - 2022.					
7	5	15 to 19	CELLS AND TISSUES	.May- 15	4.2.1 Structures and Functions of cell Organelles	24%	
				.May- 16	4.2.1 Structures and Functions of cell Organelles		
				.May- 17	4.2.1 Structures and Functions of cell Organelles		
				.May- 18	4.2.1 Structures and Functions of cell Organelles		
				.May- 19	4.2.1 Structures and Functions of cell Organelles		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		May - 2022.					
8	5	22 to 26	CELLS AND TISSUES	.May- 22	4.2.2 Relationship between cell Function and cell Structure	28%	
				.May- 23	4.2.3 Difference between Prokaryotic and Eukaryotic cells		
				.May- 24	4.2.4 Relationship between cell Size and Shape and Surface Area to Volume ratio		
				.May- 25	4.3 Passage of Molecules Into and Out of Cells		
				.May- 26	4.3 Passage of Molecules Into and Out of Cells		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		May/ June - 2022					
9	5	29 to 2	CELL CYCLE	.May-29	4.3 Passage of Molecules Into and Out of Cells	32%	
				.May-30	4.3 Passage of Molecules Into and Out of Cells		
				.May-31	4.4 Tissues (types of Plant Tissues and types of Animal Tissues)		
				.June-1	4.4 Tissues (types of Plant Tissues and types of Animal Tissues)		
				.June-2	4.4 Tissues (types of Plant Tissues and types of Animal Tissues)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		June - 2022.					
10	5	5 to 9	CELL CYCLE	.June-5	4.4 Tissues (types of Plant Tissues and types of Animal Tissues)	35%	
				.June-6	4.4 Tissues (types of Plant Tissues and types of Animal Tissues)		
				.June-7	5.1 Cell Cycle (Interphase and Division)		
				.June-8	5.2 Mitosis		
				.June-9	Phases of Mitosis		

Summer Vacation

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
11	3	2 to 4	CELL CYCLE	.August-2	Phases of Mitosis	36%	
				.August-3	Phases of Mitosis		
				.August-4	Phases of Mitosis		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
12	4	7 to 11	CELL CYCLE	.August-7	Ashoora -Holiday	40%	
				.August-8	Phases of Mitosis		
				.August-9	Significance of Mitosis		
				.August-10	Significance of Mitosis		
				.August-11	Significance of Mitosis		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
13	4	14 to 18	CELL CYCLE	.August-14	Independence day - Holiday	44%	
				.August-15	5.3 Meiosis		
				.August-16	Phases of Meiosis		
				.August-17	Phases of Meiosis		
				.August-18	Phases of Meiosis		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
14	5	21 to 25	CELL CYCLE	.August-21	Phases of Meiosis	48%	
				.August-22	Phases of Meiosis		
				.August-23	Significance of Meiosis		
				.August-24	5.4 Necrosis and Apoptosis		
				.August-25	5.4 Necrosis and Apoptosis		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Aug/ Sep - 2022.					
15	5	28 to 1	ENZYMES	.August-28	5.4 Necrosis and Apoptosis	52%	
				.August-29	5.4 Necrosis and Apoptosis		
				.August-30	6.1 Definition & Characteristics of Enzymes		
				.August-31	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)		
				.Sept:1	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
16	5	4 to 8	ENZYMES	.Sept:-4	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)	56%	
				.Sept:-5	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)		
				.Sept:-6	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)		
				.Sept:-7	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)		
				.Sept:-8	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
17	5	11 to 15	ENZYMES	Sept:- 11	6.2 Mechanism of Enzyme Action (Lock-n-Key Model)	60%	
				Sept:- 12	6.3 Specificity of Enzymes		
				Sept:- 13	6.3 Specificity of Enzymes		
				Sept:- 14	6.3 Specificity of Enzymes		
				Sept:- 15	6.3 Specificity of Enzymes		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
18	5	18 to 22	BIOENERGETICS	.Sept: 18	7.1 Introduction and the Role of ATP	65%	
				.Sept: 19	7.2 Photosynthesis		
				.Sept: 20	7.2 Photosynthesis		
				.Sept: 21	7.2 Photosynthesis		
				.Sept: 22	Introduction and Equation		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
19	5	25 to 29	BIOENERGETICS	.Sept: 25	Role of Chlorophyll and Light	68%	
				.Sept: 26	Role of Chlorophyll and Light		
				.Sept: 27	Role of Chlorophyll and Light		
				.Sept: 28	Limiting Factors in Photosynthesis		
				.Sept: 29	Adaptations in Leaf Structure for Photosynthesis		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
20	5	2 to 6	BIOENERGETICS	.Oct: - 2	7.3 Respiration	72%	
				.Oct: - 3	Aerobic Respiration, Anaerobic Respiration		
				.Oct: - 4	Aerobic Respiration, Anaerobic Respiration		
				.Oct: - 5	Mechanism of Respiration (Glycolysis, Krebs Cycle, Electron Transport Chain)		
				.Oct: - 6	Mechanism of Respiration (Glycolysis, Krebs Cycle, Electron Transport Chain)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
21	5	9 to 13	NUTRITION	.Oct: - 9	Mechanism of Respiration (Glycolysis, Krebs Cycle, Electron Transport Chain)	76%	
				.Oct: - 10	8.1 Introduction		
				.Oct: - 11	8.2 Nutrition in Plants		
				.Oct: - 12	8.2 Nutrition in Plants		
				.Oct: - 13	8.2 Nutrition in Plants		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					

22	5	16 to 20	NUTRITION	.Oct: - 16	8.2.1 Nutrition and Nutrients (Plant Nutrients and Modes of Nutrition)	78%	
				.Oct: - 17	8.2.1 Nutrition and Nutrients (Plant Nutrients and Modes of Nutrition)		
				.Oct: - 18	8.2.2 Mineral Nutrition in Plants (Role of Nitrates and Magnesium and effects of their deficiencies)		
				.Oct: - 19	8.3 Nutrition in Man		
				.Oct: - 20	8.3.1 Major Components of Food (Carbohydrates, Proteins and Fats)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
23	5	23 to 27	NUTRITION	.Oct: - 23	8.3.2 Effects of Vitamins (A, C and E) in terms of their; sources, metabolic functions and deficiencies	80%	
				.Oct: - 24	8.3.3 Effects of Minerals (Calcium and Iron) in terms of their; sources, metabolic functions and deficiencies		
				.Oct: - 25	8.3.4 Effects of Water and Dietary fibers in terms of their; sources and metabolic functions		
				.Oct: - 26	8.3.5 Balanced Diet (Concept, Diet related to age, sex and activity)		
				.Oct: - 27	8.3.6 Problems related to Nutrition		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Oct/ Nov- 2022.					
24	5	30 to 3	NUTRITION	.Oct:- 30	8.3.6.1 Protein Energy Malnutrition	81%	
				.Oct:- 31	8.3.6.1 Protein Energy Malnutrition		
				.Nov:- 1	8.3.6.2 Mineral Deficiency Diseases (Scurvy, Rickets, Night blindness)		
				.Nov:- 2	8.3.6.2 Mineral Deficiency Diseases (Scurvy, Rickets, Night blindness)		
				.Nov:- 3	8.3.6.2 Mineral Deficiency Diseases (Scurvy, Rickets, Night blindness)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov:- 2022.					
25	5	6 to 10		.Nov- 6	8.3.6.3 Famine (Unequal distribution, Drought, Flooding, Increasing population)		

	NUTRITION	.Nov- 7	8.3.6.3 Famine (Unequal distribution, Drought, Flooding, Increasing population)	82%	
		.Nov- 8	8.3.6.3 Famine (Unequal distribution, Drought, Flooding, Increasing population)		
		.Nov- 9	8.4.1 Ingestion, Digestion, Absorption, Assimilation and Egestion		
		.Nov- 10	8.4.1 Ingestion, Digestion, Absorption, Assimilation and Egestion		

Week #	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov:- 2022.					
26	5	13 to 17	NUTRITION	.Nov: -13	8.4.2 Identification and Functions of the main regions of human Alimentary Canal	83%	
				.Nov: -14	8.4.2 Identification and Functions of the main regions of human Alimentary Canal		
				.Nov: -15	8.4.3 Role of liver in digestion, glucose and amino acid metabolism and formation of urea		
				.Nov: -16	8.4.3 Role of liver in digestion, glucose and amino acid metabolism and formation of urea		
				.Nov: -17	8.4.4 Absorption of Food (Structure of Villus, Role of capillaries and lacteals)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov:- 2022.					
27	5	20 to 24	NUTRITION	.Nov:- 20	8.4.4 Absorption of Food (Structure of Villus, Role of capillaries and lacteals)	85%	
				.Nov:- 21	8.4.4 Absorption of Food (Structure of Villus, Role of capillaries and lacteals)		
				.Nov:- 22	8.4.4 Absorption of Food (Structure of Villus, Role of capillaries and lacteals)		
				.Nov:- 23	8.5 Disorders of Gut (Diarrhea, Constipation, Appendicitis, Threadworm diseases)		
				.Nov:- 24	8.5 Disorders of Gut (Diarrhea, Constipation, Appendicitis, Threadworm diseases)		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov / Dec:- 2022.					
28	Nil	27 to 1		.Nov:- 27	Oman National Day- Holidays		
				.Nov:- 28			

Sendup Examination - From November 29, 2022 to December 15, 2022

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Dec: - 2022.					
29	5	18 to 22	TRANSPOT	.Dec: -18	9.1 Introduction	90%	
				.Dec: -19	9.2 Transport in Plants		
				.Dec: -20	9.2.1 Water and ion uptake (Structure and function of root hairs)		
				.Dec: -21	9.2.2 Transpiration		
				.Dec: -22	9.2.2.1 Introduction and Significance		

Winter Vacation from December 22 to January 5, 2023

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		January- 2023.					
30	5	8 to 12	TRANSPOT	.Jan:- 8	9.2.2.2 Factors affecting the rate of Transpiration.9.2.3 Transportation of Food and Water	95%	
				.Jan:- 9	9.2.3.1 Pathway of water and food in stem.9.2.3.2 Structure and function of Xylem and Phloem		
				.Jan:- 10	9.3 Transport in Man.9.3.1 Blood.9.3.1.1 Components of Blood and their Functions		
				.Jan:- 11	9.3.1.2 Blood Groups and Blood Transfusion		
				.Jan:- 12	9.3.1.3 Disorders of Blood (Leukemia and Thalassemia)9.3.2 Human Heart		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		January- 2023.					
31	5	15 to 19	TRANSPOT	.Jan:- 15	9.3.2.1 Structure of Heart	100%	
				.Jan:- 16	9.3.2.2 Functioning of Heart (Circulation through heart, Heartbeat, Heart rate)		
				.Jan:- 17	9.3.3 Blood Vessels		
				.Jan:- 18	9.3.4 General Plan of Human Blood Circulatory System		
				.Jan:- 19	9.3.5 Cardiovascular Disorders (Atherosclerosis, Arteriosclerosis, Myocardial Infarction)		

Syllabus Completion till January 19, 2023

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		January- 2023.					
32	5	15 to 19		.Jan:- 22	Revision		
				.Jan:- 23	Revision		
				.Jan:- 24	Revision		
				.Jan:- 25	Revision		
				.Jan:- 26	Revision		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Jan/ Feb- 2023.					
33	5	29 to 02		.Jan:- 29	Revision		
				.Jan:- 30	Revision		
				.Jan:- 31	Revision		
				.Feb:- 1	Revision		
				.Feb:- 2	Revision		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February- 2023.					
34	5	5 to 9		.Feb:- 5	Revision / Test Series		
				.Feb:- 6	Revision / Test Series		
				.Feb:- 7	Revision / Test Series		
				.Feb:- 8	Revision / Test Series		
				.Feb:- 9	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February-2023.					
35	5	12 to 16		.Feb:- 12	Revision / Test Series		
				.Feb:- 13	Revision / Test Series		
				.Feb:- 14	Revision / Test Series		
				.Feb:- 15	Revision / Test Series		
				.Feb:- 16	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February-2023.					
36	3	19 to 23		.Feb:- 19	Revision / Test Series		
				.Feb:- 20	Revision / Test Series		
				.Feb:- 21	Revision / Test Series		
				.Feb:- 22	Revision / Test Series		
				.Feb:- 23	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Feb/ Mar: -2023.					
37	5	26 to 2		.Feb:- 26	Revision / Test Series		
				.Feb:- 27	Revision / Test Series		
				.Feb:- 28	Revision / Test Series		
				.March:- 1	Revision / Test Series		
				.March:- 2	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
38	5	5 to 9		.March: - 5	Revision / Test Series		
				.March: - 6	Revision / Test Series		
				.March: - 7	Revision / Test Series		
				.March: - 8	Revision / Test Series		
				.March: - 9	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
39	5	12 to 16		.March: - 12	Revision / Test Series		
				.March: - 13	Revision / Test Series		
				.March: - 14	Revision / Test Series		
				.March: - 15	Revision / Test Series		
				.March: - 16	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
40	4	19 to 23		.March: - 19	Revision / Test Series		
				.March: - 20	Revision / Test Series		
				.March: - 21	Revision / Test Series		
				.March: - 22	Revision / Test Series		
				.March: - 23	Pakistan Day- Holiday		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					

41	5	26 to 30		.March: - 26	Revision		
				.March: - 27	Revision		
				.March: - 28	Revision		
				.March: - 29	Revision		
				.March: - 30	Revision		
Pre- Board- IX- X - April-2023							