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PAKISTAN INTERNATIONAL SCHOOL BURAIDAH, AL-QASSIM. SAUDI ARABIA.



BIOLOGY SYLLABUS

CLASS VIII (Federal)

PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH <u>SYLLABUS BREAKUP</u>

Class:	_ 8TH]	D	Subject: Biology	
Class.	_0111	U	Subject: Biology	

Number of Teaching Weeks in First Term: (1 - 14) Number of Teaching Weeks in Second Term: (15 - 28)

Name of Text Book:

Veek No.	Chapter No.	Day	Topic	Book Page Numbers
1	1st	Day 1	Introduction to Biology	6
		Day 2	Quranic instruction about life	6.7
		Day 3	Major fields of biology	7.8
		Day 4	Sub fields of biology	8
		Day 1	relationship ofbiology with other fields	9
		Day 2	careers in biology	10
2		Day 3	science as collaborative field	10.11
		Day 4	biological method and its steps	11.12
3		Day 1	hypothesis, theory and law	12
		Day 2	malaria as biological problem	13
		Day 3 causes of malaria	13	
		Day 4	spread of malaria by anapheles	14,15
	2nd —	Day 1	exercise MCQS, short questions	17,18
		Day 2	exercise long questions	19
4		Day 3	introduction to Biodiversity	21
		Day 4	classification of organism and its advantages	22
		Day 1	history of classification	22,23
		Day 2	three domain system	23
5		Day 3	domain archea and domain bacteria	24
		Day 4	domain eukarya	24,25

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6		Day 1	taxanomic ranks of classification	25
		Day 2	simple classisfication of human and pea	25
		Day 3	species and binomial nomenclature	26
		Day 4	importance of binomial nomenclature	Trad State
		Day 1	classification of viruses	27
7	3rd _	Day 2	exercise MCQS, short questions	29
		Day 3	extensive questions	30
		Day 4	introduction to cell	32
		Day 1	structure of plant and animal cell	32
8		Day 2	cell wall composition, structure and function	33
		Day 3	cell membrane and fluid mosaic model	33
		Day 4	cytoplasim,endoplasmic reticulum	
		Day 1	types of endoplasmic reticulum and ribosome	34
9		Day 2	function of ribosome and golgi apparatus	35
	4.	Day 3	lysosomes and mitochondria	35
	1	Day 4	plastids and its types	36
		Day 1	vacuole and centrioles	37
10		Day 2	cytoskeleton	
10		Day 3	cillia and flagella	38
		Day 4	nucleus	39
		Day 1	structural advantage of plant and animal cells	
11		Day 2	cell specialization	40
		Day 3	rbc,neuron, liver and muscles	41
		Day 4	division of labour	

/eek No.	Chapter No.	Day	Topic	Book Page Numbers
		Day 1	stem cells	42
12		Day 2	exercise MCQS, short questions	46
		Day 3	extensive questions	47
		Day 4	is an plantage of a significant of the	
		Day 1	recalling cell theory and cell cycle	49
		Day 2	phases of cell cycle	
13	4th	Day 3	spindle apparatus	50
		Day 4	introduction to mitosis	4
14	1	Day 1	steps of karyokinesis	51
		Day 2	cytokinesis	52
		Day 3	significance of mitosis	
	-	Day 4	cloning and tissue culture	53
		Day 1	meiosis	(4月
	_	Day 2	steps of meiosis 1st	54
15	18	Day 3	steps of meiosis 2nd	55
	1.0	Day 4	significance of meiosis	56
		Day 1	genetic variation	57
		Day 2	comparison of mitosis and meiosis	2-4
16		Day 3	exercise MCQS, short questions	60,61,62
		Day 4	extensive questions	
		Day 1	introduction to levels of organization	65
	5th	Day 2	types of tissues in human	
17		Day 3	levels of organization and explanation	65,66
		Day 4	organs	18 4

Week No.	Chapter No.	Day	Topic	Book Page Numbers
	755	Day 1	organs system and how it works	67
40		Day 2	homeostasis	
18		Day 3	thermoregulation	68
		Day 4	major organ systems of human	69
		Day 1	organs system and homeostasis	70
19		Day 2	plant tissue and organ system	71
19		Day 3	internal structure of leaf	
		Day 4	exercise MCQS, short questions	75
		Day 1	extensive questions	76
20	Cal	Day 2	biochemistry and molecular biology	78
20	6th	Day 3	biological molecules	
		Day 4	protien compostion and amino acids	79
		Day 1	structural level of protein	80
		Day 2	functions of protien	
21		Day 3	animal and plant sources of protien	81
		Day 4	lipids and its different classes	82
		Day 1	structure of lipids	
		Day 2	functions and sources of lipids	83
22		Day 3	introduction to carbohydrates	
		Day 4	structure of carbohydrates	84
		Day 1	function and sources of carbohydrates	1
		Day 2	classification of carbohydrates	85
23		Day 3	common diasacharides	63
		Day 4	polysacharides and its uses	86

reek No.	Chapter No.	Day	Topic	Book Page Numbers
	31111	Day 1	introduction to nucleic acid	87
24		Day 2	structure of nucleotidemodel of DNA and RNA	88
		Day 3	Structure of DNA	
		Day 4	DNA as data bank	
		Day 1	Genes and heriditary information	89
25		Day 2	structure and tyoes of RNA	
-0		Day 3	flow of genitic information	90
		Day 4	exercise MCQS, short questions	91
		Day 1	extensive questions	92
26	7th	Day 2	metabolism and its types	94
20		Day 3	enzymes and their characteristics	
		Day 4	features of enzymes	95
		Day 1	activation energy	96
27		Day 2	mechanism of enzyme action	
21		Day 3	factors affectinng enzyme activity	97
		Day 4	substrate concentration, activator	
		Day 1	enzyme inhibition	
		Day 2	diagramtic sketch of enzyme inhibition	100
28		Day 3	role of ATP	1.
		Day 4	ATP ADP cycle	101