

CLASS:IX	INDIAN SCHOOL MUSCAT THIRD PERIODIC TEST MARKING SCHEME	SUBJECT: SCIENCE
	SET - A	
QP.NO.	VALUE POINTS	SPLIT UP MARKS
PHYSICS		
1.	Light energy to chemical energy.	1
2.	Kilowatt is the unit of power. 1 KW = 1000 W Kilowatt hour is the commercial unit of energy. 1 KWh = 3.6×10^6 J	1+1
3.	Actual work done = 300 J Work done against gravity = $mgh = 2 \times 10 \times 10 = 200$ J Work done against force of friction = $300 - 200 = 100$ J	1 +1
4.	a)Gravitational potential energy of an object at a point is defined as the work done in raising it from the ground level to that point against gravity. b)At either end or extreme position	1+1
CHEMISTRY		
5.	A polyatomic ion is a group of atoms carrying a charge (+ve or -ve) NH_4^+ , CO_3^{2-}	1
6.	$(\text{NH}_4)_2\text{SO}_4$ $\text{CO}_2=12:32=3:8$	1 1
7.	(i)molecule of an element is made up of only one kind of atom O_2 H_2 Molecule of compound contains different kinds of atoms in a fixed ratio H_2O CO_2	1 1
8.	$4.6\text{g}+3.4\text{g} \rightarrow 2.8\text{g}+5.2\text{g}$ $8=8$ This is in agreement with law of conservation of mass. Define law	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
BIOLOGY		
9.	Gymnosperms seeds naked (1/2) Angiosperms seeds covered (1/2)	1
10.	Embryonic seed leaves in seed bearing plants or any relevant statement (1/2) Rod like structure in vertebrates / proto chordates between nerve cord and back bone (1/2)	1
11.	Three germ layers present (1) Hydra – body wall made up of two layer of cell , diploblastic or any (1)	2
12.	Homo sapiens (1/2) Mammalia (1/2) Any two characters (1)	2