

CHOITHRAM SCHOOL MANIKBAGH INDORE**CLASS IX Session: 2017-18****Subject: Science****Allotment Date: 1/12/2017****Assignment No: III****Submission Date: 6/ 12/2017**

S.No	QUESTION	MARKS	LEVEL
OBJECTIVE TYPE			
1.	Calculate molecular mass of $(\text{NH}_4)_2\text{CO}_3$ & CaCO_3	1	Knowledge
2.	What do you mean by free fall?	1	Understanding
3.	Why bryophyte is known as amphibian of plant kingdom?	1	hot
SHORT ANSWER TYPE I			
4.	Write the two most important differences between Angiosperm and Gymnosperm.	2	knowledge
5.	Write a difference between mass and weight?	2	understanding
6.	The volume of a substance is 20cm^3 . If density of water is 1000kgm^{-3} . Will it sink or float in water? Give reason.	2	logic
7.	An element 'A' forms the following compound when it reacts with sulphur, hydrogen, nitrogen and chlorine. $\text{A}_2\text{S}_3, \text{AH}_3, \text{AN}$ & ACl_3 a) What is the valency of 'A' b) Element A is a metal or a nonmetal .Explain	2	Hot
SHORT ANSWER TYPE II			
8.	i) Name two characteristics of kingdom Protista. ii) Name the symbiotic relationship present in kingdom Fungi. Which are two groups in which Woese divided kingdom Monera?	3	understanding
9.	Differentiate between- i) Cryptogamae and Phanerogame. ii) Monocot and Dicot	3	Multi conceptual
10.	Sam 9 class student was studying diversity chapter. He thought all fungi are harmful and spoil food .However his elder brother Ricky told that fungi are used for preparing bakery items and medicines. i) Name the fungus which is used in bread making.. ii) Name the fungus which is used in preparation of antibiotics. iii) What values are reflected by Rajeev?	3	Value based
LONG ANSWER TYPE			
11.	i) Silver nitrate reacts with sodium chloride to form sodium nitrate and silver chloride. It is found that 3.40 g of silver nitrate combiner with 1.5 g of sodium chloride and 2.8 g of silver chloride precipitated. Applying law of conservation of mass calculate the mass of sodium nitrate formed. ii) Which postulate of Dalton's atomic theory can explain law of definite proportion? iii) Carbon and oxygen combine in the ratio 3:8 by mass to form water. What weight of oxygen gas would be required to react completely with 9 g of carbon?	5	Logic
12.	i) Two electrons each of mass 9.1×10^{-31} kg are at distance of 10^{-10} . Calculate the distance gravitational force of attraction between them. ii) Calculate the force of gravity acting on your friend of mass 60kg. Given mass of earth= 6×10^{24} kg and radius of earth= 6.4×10^6 m.	5	Hot