CHOITHRAM SCHOOL MANIKBAGH INDORE
CLASS X Session: 2017-18

Subject: Science
Allotment Date: 29/01/2018

Assignment No: IV
Submission Date: 06/ 02/2018

S.No	QUESTION	MARKS	LEVEL
	OBJECTIVE TYPE		
1.	Give molecular formula and structure of benzene.	1	Knowledge
2.	For what angle of incidence, the lateral shift produced by a parallel sides glass slab is zero?	1	Understanding
3.	Building of big dams give rise to some problems. List three main problems that may rise.	1	hot
	SHORT ANSWER TYPE I		
4.	How is ozone formed in the upper atmosphere? What are its harmful effects?	2	knowledge
5.	The image of the wall clock on a wall of the room is to be obtained on opposite wall 2m away by means of convex lens. What is the minimum focal length of lens requires?	2	understanding
6.	Which mirror has widest field of view? Draw ray diagram to explain it.	2	logic
7.	Draw the structure of isomers having molecular formula C_5H_{12}, C_4H_8	2	Hot
	SHORT ANSWER TYPE II		
8.	(a)How the method of 'artificial selection' by humans helped in the evolution of different vegetables? (b) Explain the ways in which evolutionary relationships can be traced.	3	understanding
9.	1. What is an ecosystem? 2.Why bacteria and fungi are called decomposers? List two advantages of decomposers to the environment. 3. Draw a food chain with four tropic levels.	3	Multi conceptual
10.	Chipko movement was started in 1970s in a small village of Garwal high up in Himalayas. Villages stood against the greedy contractors. Woman folk hugged the trees. The Chipko movement spread slowly to all nearby areas under the leader ship of Shri Sunder Lal Bahugana. Answer the following- (i)Do you feel inspired by this movement felling of trees were prevented? (ii)Who do you think were the real stake holders? (iii)What values does chipko movement evoke?	3	Value based
	LONG ANSWER TYPE		
11.	Account for the following: (a) Soap does not give foam in hard water. (b) Conversion of ethanol to ethanoic acid is an oxidation reaction. (c) Hydrocarbons used as fuel.	5	Logic
12.	a. A concave mirror and a convex lens are immersed in water. What change do you expect in their respective focal lengths as compared to their values in air? b. For the same angle of incidence, the refraction in three different media A, B and C are $25^0, 30^0$ and 35^0 respectively. In which medium is the speed of light minimum and in which medium it is maximum? Justify your answer c. Give the ratio of velocities of light rays of wavelength 4000 A^0 and 8000 A^0.	5	Hot