

**CHOITHRAM SCHOOL MANIKBAGH INDORE****CLASS IX Session: 2017-18****Subject: Science****Allotment Date: 19/2/2018****Assignment No: IV****Submission Date: 26/2/2018**

S.No	QUESTION	MARKS	LEVEL
<b>OBJECTIVE TYPE</b>			
1.	What are canal rays?	1	Knowledge
2.	Define potential and kinetic energy.	1	Understanding
3.	Which group Pisces or Amphibia is advanced? Give two reasons.	1	hot
<b>SHORT ANSWER TYPE I</b>			
4.	Write the differences between –i) Echinodermata and Chordata on the basis of notochord. ii) Platyhelminthes and Echinodermata on basis of coelom.	2	knowledge
5.	How much time does it take to perform 500J of work at a rate of 10W?	2	understanding
6.	An object of mass 40 kg is raised to height of 5m above the ground. What is its potential energy? If the object is allowed to fall, find its kinetic energy when it is half way down?	2	logic
7.	Calculate the number of moles and number of molecules in 16 g of solid sulphur (S <sub>8</sub> ). Given that the atomic mass of sulphur atom is 32u.	2	Hot
<b>SHORT ANSWER TYPE II</b>			
8.	i) Name any two diseases which spread by sexual contact but are caused by bacteria instead of virus. ii) Name the bacterium which cause peptic ulcer. iii) Why acute diseases are severe but are less harmful than chronic diseases?	3	understanding
9.	i) Why some children fall ill more frequently than others living in the same locality? ii) Why is AIDS considered to be a Syndrome and not disease? iii) Why antibiotics are not effective against viral infection?	3	Multi conceptual
10.	Government has recently taken series of steps to minimize cigarettes smoking. i) List any two steps taken by government to create awareness. ii) What is passive smoking? iii) Write one chronic disease that occur due to smoking?	3	Value based
<b>LONG ANSWER TYPE</b>			
11.	In the gold foil experiment, what observation led Rutherford to conclude that: a) Most of the space inside the atom is hollow. b) Volume occupied by the nucleus is very small as compared to the total volume of the atom. c) Almost entire mass of the atom is concentrated at its centre.	5	Logic
12.	a) A stone is dropped from the top of a tower 500m high into a pond of water at the base of the tower. When is the splash heard at the top? ( $g=10\text{m/s}^2$ and speed of sound=340m/s). b) The speed of sound in sea water is 1530m/s. the wavelength of a wave transmitted through the sea is 0.02 m. find its frequency.	5	Hot