

CHOITHRAM SCHOOL MANIKBAGH INDORE**CLASS X Session: 2017-18**

Subject: Science
Allotment Date: 11 /8/2017

Assignment No: 2
Submission Date: 18/08/2017

S.No	Question	Marks	Level
OBJECTIVE TYPE			
1.	Name the indicator which gives pink color with base and remains colorless in acid.	1	Knowledge
2.	How is heat produced by an electric current?	1	Understanding
3.	Why the walls of ventricles are thicker than auricles?	1	Hot
SHORT ANSWER TYPE I			
4.	Plants absorb water from the soil. How does this water reach the tree tops? Explain in detail.	2	knowledge
5.	a) Differentiate between short circuiting and overloading.	2	understanding
6.	a) If a number of bulbs of different wattages are joined in parallel, which bulb will glow with maximum brightness? b) Which bulb will glow with maximum brightness in case bulbs of different wattages are joined in series?	2	logic
7.	a) The pH of solution of hydrochloric acid is 5. What would be concentration of hydrogen ion in mol/L b) How can a farmer raise pH of soil in his field?	2	Hot
SHORT ANSWER TYPE II			
8.	a) Draw a labeled diagram of Nephron and explain the process of urine formation.	3	understanding
9.	a) What is blood pressure? How is it measured? What is the normal systolic and diastolic pressure? (b) Describe how deoxygenated blood from right auricle is sent to lungs for oxygenation. (c) Explain how oxygenated blood received in the left auricle is sent to all parts of the body.	3	Multi conceptual
10.	You are standing on the road side, when you saw a family travelling in a car. An ambulance carrying a patient for dialysis was travelling behind the car. The driver of the car brought his car to one side of the road and allowed the ambulance to overtake. Read the following passage and answer the following- i) What is dialysis? ii) What are the vehicles that we should give pass while driving? iii) What values were shown by the driver?	3	Value based
LONG ANSWER TYPE			
11.	a) Metals generally do not liberate hydrogen gas with nitric acid. Why? b) Why does not dry HCl gas change the color of dry litmus paper? c) PH of a solution changes 8 to 9. What is the change in hydrogen ion concentration and in nature of solution?	5	Logic
12.	1. Two bulbs P and Q are rated 100W-120V and 10W-120V respectively. They are connected across a 120V source in series. Which will consume more energy?	5	Hot