

CHOITHRAM SCHOOL MANIKBAGH INDORE

CLASS IX Session: 2018-19

Subject: Science
Allotment Date: 08/02/2019

Assignment No: IV
Submission Date: 13/02/2019

| S.No | QUESTION | MARKS | LEVEL |
|-----------------------------|--|-------|------------------|
| OBJECTIVE TYPE | | | |
| 1. | What are canal rays? | 1 | Knowledge |
| 2. | A construction worker's helmet slips and falls when he is 78.4 m above the ground. He hears the sound of the helmet hitting the ground 4.23 Seconds after slipped. Find the speed of sound in air. | 1 | Understanding |
| 3. | Name the reproductive organs of (i)Gymnosperm (ii) Angiosperm | 1 | hot |
| SHORT ANSWER TYPE I | | | |
| 4. | What conventions are followed while writing the scientific names? | 2 | knowledge |
| 5. | Calculate the wavelength of a sound wave whose frequency is 300Hz and speed is 330 m/s. | 2 | understanding |
| 6. | Why does a person standing for a long time get tired when he does not appear to do any work? | 2 | logic |
| 7. | In an atom of an element 'Z', 5 electrons are present in the outermost shell. It require noble gas configuration by accepting requisite number of electrons, then what will be the charge on the ion formed? Write the formula of the compound which will be formed when Z react with sodium atom. | 2 | Hot |
| SHORT ANSWER TYPE II | | | |
| 8. | Classify the following organisms on the basis of acoelomate, pseudocoelomate, and coelomate. Earthworm, bird, Ascaris, Sycon, planaria, Wuchereria | 3 | understanding |
| 9. | Differentiate between- Cold blooded and warm blooded animals, Acoelomate and coelomate, Triploblastic and diploblastic | 3 | Multi conceptual |
| 10. | Specify the function of the following- a)Hooks and suckers in flat worms. (b) canal system in porifera (c) stinging cells in hydra. | 3 | App |
| LONG ANSWER TYPE | | | |
| 11. | a) Why do isotopes show similar chemical properties? b) Atomic number of an element is 17 and its mass number is 35. i) How many electrons, protons and neutrons are present in the element? ii) Identify the element. iii) Deduce the valency of the element. | 5 | Logic |
| 12. | The U.S. athlete Florence Griffith - Joyner won the 100 m sprint gold medal at Seol Olympic 1988 setting a new Olympic record of 10.54 s. Assume that she achieved her maximum speed in a very short time and then ran the race with that speed till she crossed the line. Take her mass to be 50 kg. a) calculate the kinetic energy of Griffith- Joyner at her full speed. b) Assuming that the track, the wind etc. Offered an average resistance of one tenth of her weight, calculate the work done by the resistance during the run. c) what power she had to exert to maintain uniform speed? | 5 | Hot |