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Class: VIII Subject : Science & Tech. Assignment No. 2

Section - A: Physics

- 1) What is friction? What are the two main factors on which the force of friction depends?
- What is the principle used in ball bearings? How are ball bearings useful to us?
- 3) What is viscous drag? State three factors on which it depends.
- 4) With the help of a diagram discuss the terms: Amplitude, Time Period, and Frequency of a sound wave.
- 5) Draw a labeled diagram of human ear, explaining how the energy of the sound wave is transmitted to the nerves in the cochlea.
- 6) Name the three types of musical instruments, giving one example of each. Describe how sound is produced in each type.
- 7) Using the example of a loudspeaker, explain how sound travels.
- 8) Define the following terms: Electrolyte, Electrolysis, Electrodes,
- 9) How can you electroplate an aluminium chain with gold? Explain with the help of circuit diagram.
- 10) Describe the electrolysis of acidulated water.

Section - B : Chemistry

- Write differences between metals and non-metals on the basis of malleability, conductivity, melting point and tensile strength.
- 2) What do you mean by destructive distillation of coal? Write its products and their uses.
- 3) How is coal formed?
- 4) Write the chemical equation for the following:
 - a) Reaction of sodium with water.
 - b) Reaction of magnesium oxide with water.
 - c) Reaction of iron with copper sulphate.
- 5) What is reactivity series? Arrange these elements in descending order of reactivity. Fe , K , Zn , Na , Al , Cu , Au , Ag

Section - C: Biology

- 1. What is vaccine? Describe the role of micro-organisms in vaccination.
- 2. Define carriers. How carriers spread diseases? Explain with one example and also mention the preventive measures.
- Explain three common methods to preserve food items along with examples.
- 4. 'Percentage of nitrogen in the atmosphere remains more or less constant'. Explain and justify.
- 5. Write four major groups of micro-organisms and draw well labeled diagram of one micro-organism of each group.
- 6. Define crops. How crops can be classified on the basis of the season. Explain with examples.
- 7. Describe two economical modern methods of irrigation.
- 8. Why manures should be preferred over fertilizers?
