Subject- Science

Practice Assignment-1

Q1 Rizobium bacteria are found in _____ of leguminous plants.

a) Leaves b) Stem c) Root nodules d) Flowers

Q2 Which of the following is a natural polymer?

a) Polyester b) Nylon c) Cellulose d) Acrylic

Q3 Which of the following is the most reactive metal?

a) Iron b) Zinc c) Copper d) Potassium

Q4 The property of metal used for making temple bells is-

a) Ductility b) Hardness c) Sonority d) Malle ability

Q5 Draw a labelled diagram of nitrogen cycle.

Q6 Preparation of soil involves loosening and turning. What are the advantages of doing so? Explain.

Q6 Explain two natural methods of manuring.

Q7 What is atmospheric nitrogen fixation?

Q8 How bacteria are useful in leather and jute industries?

Q9 Explain three ways by which germs enter our body and cause diseases.

Q10 Define the process of fermentation.

Q11 Plastics are very useful materials. Why then is there concern today about their increasing use?

Q12 Why is rayon called regenerated fibre?

Q13 Why are plastic bottles commonly used to store chemicals in a chemistry laboratory?

Q14 Explain three uses of polyester with proper reason for each use.

Q15 Case study :

Take three clean Iron nails without any rust on them and three test tubes with corks. In test tube A put a few lumps of anhydrous calcium chloride. Put a layer of cotton wool and then the nail. Close the test tube with a cork. In test tube B, take some pure water. Boil it for one minute to drive off any dissolved air. Then drop in the nail. To keep the air out, seal the water surface in the test tube by pouring molten wax on it. Close the test tube with a cork. Half-fill test tube C with tap water and drop the nail in it. Close the test tube with a cork. Leave the tubes for several days.

a) **Which test tube's nail will rust and why?**
b) **Rust of iron is iron oxide. Will it be acidic or basic and why?**
c) **Which of the following is incorrect for Alloys:-**

i) Alloying can be used to increase hardness of metals.

ii) It is used to make metals more resistant.

iii) An alloy is a heterogeneous mixture.

iv) Alloys of platinum are very corrosion resistant.

Q16 What do you mean by reactivity series?

Q17 Metal M1 is more reactive than metal M2. Which metal will be higher up in the reactivity series?

Q18 Explain three ways by which corrosion can be prevented.