5. Attempt any FOUR of the following:

16

- a) Define pH. Calculate the pH of solution if hydrogen ion concentration is 5.4 × 10⁻³gm ion per lit.
- b) Give any four characteristic properties of good refractory.
- c) What are the basic raw materials of ceramic? Write their important properties.
- d) Define composite materials. Write their applications.
- e) Write the chemical reactions taking place in the zone of reduction of blast furnace.
- f) Give composition, properties and uses of Wood's metal.

6. Attempt any FOUR of the following:

- 16
- a) Define alloy. What is effect of alloying elements Cr and Si on the properties of steel?
- b) Describe the process of galvanising for the protection of metal against corrosion with diagram.
- c) What is immersed corrosion? Explain the mechanism of it by taking example of Daniel cell.
- d) Explain hydrogen evolution mechanism of electrochemical corrosion.
- e) Explain fluid film lubrication with diagram.
- f) Define the terms:
 - (i) Flash point
 - (ii) Fire point
 - (iii) Cloud point
 - (iv) Emulsification

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Alice Martin, Annie Quick

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