Assignment No: I

(Write any five)

Q.1 Classify engineering materials.
Q.2 Which are non ferrous metal alloys.
Q.3 Which are important properties of 'Bearing Materials'
Q.4 Classify refractonies.
Q.5 Which are main purposes of heat treatment of steel.
Q.6 Define - Elastic limit
   Resilience
   Toughness
Q.7 Explain Tensile and compression tests.
Q.8 Name all important hardness tests carried out in engineering industries. Q.9 Write advantages of Rockwell hardness test.

Assignment No: II

(Write any five)

Q.1 Define - ferrite and Austenite Q.2
   Explain classification of 'steels'.
   Or
Q.2 What are limitations of 'plain carbon steels'
Q.3 What are various heat treatments used for stainless steels.
   Or
Q.3 What are special purpose steels' write their application in practice.
Q.4 State advantages of cast iron over steel.
   Or
Q.4 Write short note on - Albu cast iron.
Q.5 Explain any two copper-nickel alloys with repect to their composition, properties & uses.
   Or
Q.5 What are requirements of Bearing Materials.
   Or
Q.5 What is 'cartridge brass' and Manganese bronze.
Assignment No: III

(Write any five)

Q.1 What are ceramics and state their important properties.
Q.2 What is 'clay' and its properties.
Q.3 How is the 'cement' manufactured.
Q.4 What are properties of 'Glass'. State any four uses & glass in industrial application.
Q.5 What are refractories and its properties.
Q.6 What is plastic and how are they formed.

(Write any two)

Q.1 Differentiate between thermo setting and thermoplastics.
Q.2 Write short note on fillers and plasticizers.
Q.3 State and explain properties of synthetic rubber.
Q.4 Explain vulcanization of rubber.

(Write any one)

Q.1 Define corrosim and state its types.
   Or
Q.2 Explain Galvanizing and sherardizing processes.
   Or
Q.3 Write short note on — Metal spraying and Tinning.