

Tilak Maharashtra University

Diploma in Engineering

SUB: Engineering Materials.

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 refractories.

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 respect to their composition, properties & uses.

Or

Q.5 What are requirements of Bearing Materials.

Or

Q.5 What is 'cartridge brass' and Manganese bronze.