

IEC COLLEGE OF ENGINEERING & TECHNOLOGY GREATER NOIDA
DEPARTMENT OF MECHANICAL ENGG.
CLASS TEST- (2008-09)

SUB-EME(101) ,MP

TIME- 3 HOUR

MM- 50

SectionA

10

Attempt all question

- 1) Sudden fracture occurs in material.
- 2) material retain their shape even after application of force.
- 3) contains more than 2% carbon.
- 4) are provided in mould to locate and support the core.
- 5) For uniform rate of cooling are placed inside mould cavity while casting.
- 6) Forging is aworking process.
- 7) flame contains acetylene in excess amount in oxy-acetylene welding.
- 8) In Electric Arc Welding high heat generate atpole.
- 9) Exact replica or model of casting with some modification to prepare mould cavity is called.....
- 10) Endurance limit is a term related to phenomena of

SectionB

15

Attempt any three. Each carry equal marks

- 7) a) What is mould? What should be the properties of moulding sand.
b) How many types of fracture is possible in material?
- 8) a) Explain Cupola Furnace.
b) Differentiate function of Shaper and Planer.
- 9) a) Explain welding defects.
b) Explain casting defects.
- 10) a) Describe Soldering and Brazing.
b) Advantage and Disadvantage of Ferrous Metal over Non Ferrous Metal
- 14) a) Explain Galvanizing and Electroplating.
b) Define Production and Productivity.

SectionC

25

Attempt all questions. Each question carry equal marks.

- 15) Describe Heat Treatment Processes.
- 16) What is Lathe. Describe operations performed on lathe.
- 17) Define following.
i. Strength ii. Stiffness iii. Toughness.
- 18) Describe metal forming processes.
- 19) Describe Fatigue and Creep.

