

- No. of Printed Pages : 4
Roll No.

3rd Sem / Chemical Engineering
Subject:- Introduction to Engineering Materials
/ Engg. Materials

M.M. : 100

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What are polymers? Discuss different types of polymers?
- Q.37 What is non-ferrous material? Define types of non-ferrous material with examples.
- Q.38 Write classification properties and uses of steel.

- Q.5 Pig iron is the name given to
- Raw material for blast furnace
 - Product of blast furnace made by reduction of iron ore
 - Iron containing huge quantities of carbon
 - Iron in molten form in the ladles
- Q.6 An example of amorphous material is
- Zinc
 - Lead
 - Silver
 - Glass
- Q.7 Steel is made from phosphate iron is
- Brittle
 - Hard
 - Ductile
 - Tough
- Q.8 Which is false statement about tempering ?
Tempering is done to
- Improve machinability
 - improve ductility
 - Improve toughness
 - Release stress
- Q.9 Super conduction by metals is observed in the temperature range of
- Below 10°K
 - Above 100°K
 - Around 0°C
 - None
- Q.10 The material in which the atoms are arranged regularly in some directions but not in others, is called
- Amorphous material
 - Crystalline material
 - Mesomorphs Material
 - None

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is tensile strength?
- Q.12 What is malleability?
- Q.13 Write one method of improving strength.
- Q.14 Write unit of thermal conductivity?
- Q.15 What is crystal melting temperature?
- Q.16 Write one type of glass.
- Q.17 Write composition of glass.
- Q.18 Write full form of HDPE.
- Q.19 Write one aluminum ore.
- Q.20 Write one copper alloy

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write use of engineering material in chemical Industry.
- Q.22 What is ferrous material. Write example of ferrous material.
- Q.23 Write uses of engineering materials.
- Q.24 Define glass. What classification of glass.
- Q.25 What are alloys for aluminum?
- Q.26 Write properties and uses of pig iron.

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