

- Q.26 Write the factors affecting physical properties of steel.
- Q.27 Classified the stainless steel and write their properties and uses.
- Q.28 Explain any two alloys of aluminum with their properties and uses.
- Q.29 Describe any one method for improving strength of metal.
- Q.30 Explain LDPE and HDPE polymer.
- Q.31 Write on earthen ware and stone ware clay.
- Q.32 Explain potash glass with their properties and uses.
- Q.33 Explain crystalline melting temperature.
- Q.34 Write on thermal conductivity and specific heat of metal.
- Q.35 Explain BIS according to engineering materials.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain phase diagram of Fe-C with a peritectic, Eutectic and Eutectoid portion.
- Q.37 Classify cast iron and explain any two types with their properties and uses.
- Q.38 Name the types of synthetic rubber and write on any two types of synthetic rubber with their properties and uses.

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

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 The property of a Material by virtue of which it can be rolled into thin sheet is called.
- a) Malleability b) Ductility
 - c) Plasticity d) Toughness
- Q.2 Cast iron has the property of
- a) Ductility b) Plasticity
 - c) Brittleness d) Malleability
- Q.3 The Tensile strength of mild steel is _____ as compared to cast iron.
- a) More b) Less
 - c) Equal d) None of the above
- Q.4 The material in which atoms are arranged in a very regular and orderly fashion in a three dimensional pattern is called.
- a) Crystalline Material
 - b) Amorphous Material

SECTION-B

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

- Q.11 The polymer made by condensation of phenol with formaldehyde is.

Q.12 Full form of PET.

Q.13 Define polymer.

Q.14 Define heat insulating material.

Q.15 Define a metalloids.

Q.16 Classify the refractories material.

Q.17 Bronzes are the alloys of _____.

Q.18 The highest % of carbon that an iron carbon alloy can have.

Q.19 Name major ores of iron.

Q.20 Define alloy.

SECTION-C

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

- Q.21 Write the desirable properties of heat insulating material.
 - Q.22 Write the properties and uses of copper.
 - Q.23 Classified the engineering materials and define ferrous and non-ferrous metal.
 - Q.24 Write the properties and uses of polycarbonates.
 - Q.25 Explain wrought iron with their properties and uses.