

Q.32 Draw and explain in brief, Fe-C diagram.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 What are alloys? Discuss the important alloys of steel along with their applications in the chemical industry.

Q.34 What are Ceramics? How will classify them? Discuss each type along with their properties and uses?

Q.35 Write the important ores of lead. Discuss properties and applications Lead in chemical industry.

Q.36 Explain the following in detail.

- (a) Polypropylene
- (b) Stainless Steel

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3rd Sem. / Chemical Engg.

Subject : Introduction to Engineering Material

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Name the class of metallic materials to which cast iron belongs.

Q.2 Write the name of any one type of rubber.

Q.3 Write the name of any one non-ferrous metal.

Q.4 Write full form of BIS.

Q.5 Name the class of engineering materials to which glass belongs.

Q.6 Write S.I unit of compressive strength.

Q.7 Write the name of any one alloy of nickle.

Q.8 Write full form of LDPE.

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- Q.9 Write the name of any one thermal property of engineering material.
- Q.10 Name the monomer used for manufacture of PVC.

SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 What is cast iron?
- Q.12 Write two uses of wrought iron.
- Q.13 Define the ductility.
- Q.14 Write any two properties of metallic materials.
- Q.15 What are electrical properties?
- Q.16 Write the name of monomers used for manufacture of Nylon-66
- Q.17 Define tensile strength.
- Q.18 Write any two uses of stoneware.
- Q.19 Define crystalline melting temperature.

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- Q.20 What is glass?
- Q.21 Define specific heat.
- Q.22 Write any two properties of clay.

SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Discuss the different varieties of cast iron in brief.
- Q.24 How will you classify the engineering materials into different categories?
- Q.25 Write various uses of aluminium.
- Q.26 What is difference between plastic and rubber?
- Q.27 What is soft glass? Write its uses.
- Q.28 Discuss the properties of tin in brief.
- Q.29 Write the properties and uses of PVC.
- Q.30 Describe the different alloys of copper in brief.
- Q.31 Explain glass transition temperature.

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