

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Briefly cite the differences between recovery and re-crystallization process.
- Q.12 Explain the structure and properties of malleable cast iron.
- Q.13 Differentiate between thermosetting and thermoplastic polymers with examples.
- Q.14 Write in brief about the essential ingredients of varnishes and their roles.
- Q.15 What are asbestos? Write their types and properties?
- Q.16 Write general sheets specifications (I.S.) and their uses.
- Q.17 Draw the Iron-carbon equilibrium diagram and label various phases present.
- Q.18 Write difference between Normalizing and Tempering.

SECTION-C

Note: Long answer questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 What are the various types of solid solutions? Explain with examples.
- Q.20 Explain the structure and properties of Grey cast iron.

No. of Printed Pages : 2

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Roll No.

2nd Sem, Level 4 / DVOC (Auto. Servicing, PT, AMT)

Subject : Material Science & Materials

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

- Q.1 Molecular structure
- Q.2 Inter metallic compounds
- Q.3 Cast Iron
- Q.4 Heat resisting alloys
- Q.5 Thermo-set plastics
- Q.6 Enamel
- Q.7 China clay
- Q.8 Uses of asbestos
- Q.9 Normalizing
- Q.10 Significance of TTT diagram

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