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Question Paper Code : 30255

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023

Third/Fourth Semester

Manufacturing Engineering

ME 3392 – ENGINEERING MATERIALS AND METALLURGY

(Common to : Mechanical Engineering/Mechanical Engineering (Sandwich)/
Mechanical and Automation Engineering)

(Regulations – 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Differentiate between substitutional and interstitial solid solution.
2. What is an equilibrium phase diagram?
3. List the different types of annealing.
4. What is the significance of TTT diagram in the heat treatment of steel?
5. List four important alloying elements added in alloy steels.
6. Why does the aluminium replace the copper as an electrical conductor?
7. What are the characteristics of plastics which account for their wide use as engineering materials?
8. Name any four thermoplastics and thermosetting plastics.
9. Differentiate between ductility and malleability.
10. List the main parameters which may be determined in a tensile test.

Engineering Materials And Metallurgy Question Paper

S Ben Porath



Engineering Materials And Metallurgy Question Paper:

Reviewing **Engineering Materials And Metallurgy Question Paper**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Engineering Materials And Metallurgy Question Paper**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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