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Give the composition and uses of various cast - irons (08 Marks) 8 (08 Marks) Write a note on Aluminum alloys. Module-5 Define Composite materials. Explain the role of matrix material in a composite. (04 Marks) 9 What are the advantages and limitations of composite materials? (06 Marks) With a neat sketch, explain any one method for production of fibre reinforced plastic. (06 Marks) OR a. What are shape memory alloys? With a neat sketch, explain the stress - strain characteristics 10 of SMA's as a function of temperature. (08 Marks) What are the biological applications of smart materials used as implants? (04 Marks) (04 Marks) Write a note on use of non – destructive testing.