

Code: 9A03403

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017

MANUFACTURING TECHNOLOGY

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) What is gating ratio? Explain.
(b) Explain the pressurized gating system and unpressurized gating system. Write the advantages and disadvantages.
- 2 (a) Explain the feeding range of risers with sketch.
(b) Explain the centrifugal casting process with sketch.
- 3 (a) Describe the Oxy acetylene equipment with sketch.
(b) What are the applications of oxy acetylene gas welding?
- 4 (a) What is heat affected zone (HAZ)? Explain briefly the three regions of HAZ with sketch.
(b) Differentiate between soldering and brazing.
- 5 (a) What effect does the elastic limit of a material have on ability to be cold worked.
(b) Explain the process of strain hardening.
- 6 Write short notes on:
(a) Stamping.
(b) Hot drawing.
- 7 Enumerate the differences between:
(a) Open die forging and closed die forging.
(b) Drop forging and press forging.
- 8 (a) What are the main parameters to be considered while selecting a particular unconventional machining process?
(b) Explain the principle ECM with help of a suitable diagram.
