

R07

Code: R7310304

III B. Tech I Semester (R07) Supplementary Examinations, May 2012

MACHINE TOOLS

(Mechanical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 Discuss in detail about the basic objectives of efficient and economical metal cutting operations.
- 2 Describe a multi-spindle automatic lathe machine in details.
- 3 With a neat sketch, explain the processing of producing horizontal flat surface by using a shaper.
- 4 Explain in detail, how facing operation is performed on a boring machine.
- 5 Classify various milling operations that can be performed on a milling machine.
- 6
 - (a) What do you understand by a vitrified bond?
 - (b) What are the advantages and disadvantages of this bond?
- 7 What is lapping? Explain in detail how it is done.
- 8 What are jigs and fixtures? Explain the use of jigs and fixtures in mass production.
