



P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Fourth Semester, B.E. - Industrial and Production Engineering
Semester End Examination; May / June - 2018
Production Technology - II

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Give a brief introduction on lathe. Explain the function of a lathe and also list the different types of lathe. 10
- b. List the basic parts of a geared head lathe. With a neat sketch, explain any one part of a geared head lathe. 10
- 2 a. With a neat sketch, explain four Jaw independent chucks. 10
- b. List the different types of lathe operations. With a neat sketch, explain any two in detail. 10

UNIT - II

- 3 a. With a neat sketch, explain Radial drilling machine. 10
- b. With a neat sketch, list and explain the devices commonly used for work holding in a drilling machine (any two). 10
- 4 a. List different types of drilling operation. Explain any two with a neat sketch. 10
- b. List and explain the different types of planning machine. 10

UNIT - III

- 5 a. Explain the following with a neat sketch : 10
- i) Helical plain milling cutter ii) Staggered teeth side milling cutter
- b. With a neat sketch, explain the Up-Milling and Down-Milling processes. 10
- 6 a. List the operations performed in a milling machine. Explain anyone with a neat sketch. 10
- b. Mention the safe-working practices of a milling machine. 10

UNIT - IV

- 7 a. With a neat sketch explain the following : 10
- i) Horizontal spindle rotary table ii) Vertical spindle reciprocating table
- b. Explain the importance of any bonding materials and processes. 10
- 8 a. With a neat sketch, define and explain Honing process. 10
- b. Explain the following : 10
- i) Buffing ii) Power Brushing iii) Tumbling iv) Super Finishing

UNIT - V

- 9 a. With a neat sketch, explain the ECM process. 10
- b. List the advantages and disadvantages of LBM process. 10
- 10a. With a neat sketch, explain the EBM process. 10
- b. With a neat sketch, explain chemical blanking process. 10