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10ME/AU/PM/TL45

Fourth Semester B.E. Degree Examination, June 2012

Manufacturing Process – II

Time: 3 hrs. Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

1. a. With neat sketches, explain clearly the different types of chips by enumerating the conditions under which each variety of chip will be formed. (09 Marks)
- b. Mild steel bars of 50 mm diameter are to be turned over a length of 160 mm with a depth of cut of 1.5 mm, feed of 0.2 mm/rev at 230 rpm by HSS tool. If the tool life equation is given by, $V T^{0.1} f^{0.75} d^{0.12} = 50$, determine how many components may be turned before regrinding of the tool. (07 Marks)
- c. Write an explanatory note on flank wear. (04 Marks)
2. a. List and explain the essential properties of cutting tool materials. (08 Marks)
- b. List the various functions of a cutting fluid in metal cutting. (04 Marks)
- c. State the various methods of measuring the tool tip temperature and hence explain any one of them with neat sketch. (08 Marks)
3. a. Distinguish clearly between shaping and planing. (04 Marks)
- b. Explain clearly the tail stock offset method of taper turning in a lathe. (07 Marks)
- c. With a neat sketch, explain clearly the construction and working of a shaper. (09 Marks)
4. a. With a neat diagram, explain briefly the construction and working principle of upright drilling machine. State its relative merits and demerits. (10 Marks)
- b. Explain briefly with suitable sketches the various operations to be performed on a drilling machine. (10 Marks)

PART - B

5. a. With the aid of suitable sketches, explain clearly the concepts of up milling and down milling. (08 Marks)
- b. With a neat sketch, explain briefly the working of a universal dividing head. (08 Marks)
- c. Differentiate between simple indexing and compound indexing. (04 Marks)
6. a. With neat sketch, explain clearly the construction and working principle of a surface grinding machine. (10 Marks)
- b. Explain the following:
 - i) Types of abrasives used in grinding wheels.
 - ii) Dressing and truing of grinding wheels.(10 Marks)
7. a. Distinguish clearly between push broach and pull broach. (04 Marks)
- b. What is honing? With a neat sketch, explain clearly the vertical honing machine. (09 Marks)
- c. Explain with a neat sketch, the process of lapping. (07 Marks)
8. a. With a neat sketch, explain clearly the principle of working and construction of a Abrasive Water Jet Machining (AWJM). State the process parameters. (10 Marks)
- b. Explain briefly the principle of EDM, with a neat sketch. List the various factors affecting the MRR in EDM process and explain any one of them. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any recurring identification, appeal to evaluator and/or equations written eg. 4+8=50, will be treated as malpractice.

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