

CBCS Scheme

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15MT44

Fourth Semester B.E. Degree Examination, Dec.2017/Jan.2018 Manufacturing Technology

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Explain classification of manufacturing process. (08 Marks)
b. List the concepts involves in advance manufacturing engineering. (08 Marks)

OR

- 2 a. Which are the steps involved in CASTING process? (05 Marks)
b. What is Pattern? List the types of Pattern. (06 Marks)
c. Which are the properties of moulding sand? (05 Marks)

Module-2

- 3 a. Which are the properties of wrought products? (04 Marks)
b. Explain with a neat sketch, FORGING. (06 Marks)
c. List the applications of Forging. (06 Marks)

OR

- 4 a. Which are the defects in Rolled products? (04 Marks)
b. Illustrate with a neat sketch, DRAWING (06 Marks)
c. List the classification of TUBE DRAWING. (06 Marks)

Module-3

- 5 a. Explain with a neat sketch, EXTRUSION process. (06 Marks)
b. Explain the applications of EXTRUSION. (04 Marks)
c. Explain BLANKING Operation. (06 Marks)

OR

- 6 a. Which are the defects in drawn products? (04 Marks)
b. Describe the advantages and limitations of Metal Arc Welding. (06 Marks)
c. With a neat sketch, explain TIG Welding. (06 Marks)

Module-4

- 7 a. Illustrate with a neat sketch, Laser – Beam machining. (08 Marks)
b. Explain Electro – Chemical machining. (08 Marks)

OR

- 8 a. Explain with a neat sketch, WATER – JET – MACHINING. (06 Marks)
b. Write short notes on :
i) EDM Electron Discharge Machining.
ii) Plasma Arc Machining. (10 Marks)

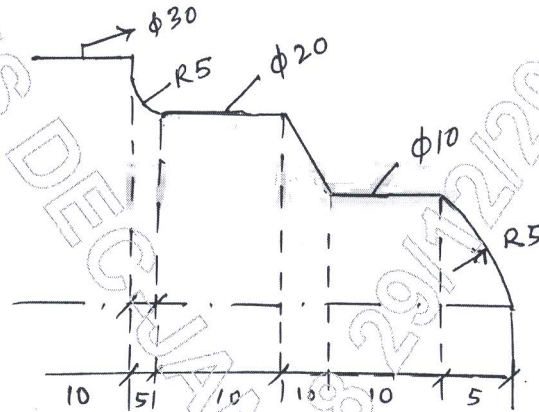
Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-5

- 9 a. Explain the basics of Turning Tool Geometry. (08 Marks)
b. Write a note on Manual Part Programming. (08 Marks)

OR

- 10 a. Write a CNC Turning part program for the component shown below. (10 Marks)



- b. What is DNC? Which are the types of DNC? (06 Marks)
