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Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Marine 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. Define welding and write the classification of welding. (05 Marks)
b. With a neat sketch explain resistance welding (06 Marks)
c. Write a note on soldiering. (05 Marks)

OR

- 2 a. Write a note on electrodes used in electric arc welding. (06 Marks)
b. What are the welding defects? Explain any two. (05 Marks)
c. Explain gas welding. (05 Marks)

Module-2

- 3 a. What are the desirable properties of moulding sand? Explain briefly. (08 Marks)
b. With neat sketch, the construction and working of 'pit' furnace. (08 Marks)

OR

- 4 a. Explain patterns used in sand casting. (08 Marks)
b. With next sketch explain investment casting. (08 Marks)

Module-3

- 5 a. Name the types of grinding machines and explain surface grinding machines. (08 Marks)
b. Write a note on : i) Lapping ii) Honing. (08 Marks)

OR

- 6 a. Write a note on grinding wheels characteristics (08 Marks)
b. Briefly explain the external cylindrical centre less grinding with a neat sketch. (08 Marks)

Module-4

- 7 a. Name the types of dies and explain compound types of die. (08 Marks)
b. Write a note on : i) Blanking ii) Piercing iii) Punching iv) training. (08 Marks)

OR

- 8 a. Explain cold working and hot working process and differentiate between them. (08 Marks)
b. List and explain different methods of tube drawing. (08 Marks)

Module-5

- 9 a. Explain with neat sketch a radial drilling machines. (08 Marks)
b. Write a note on lathe specifications. (08 Marks)

OR

- 10 a. Explain different operations on a laths. (08 Marks)
b. Differentiate between upmilling and downmilling. (08 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.

Please read