

CBCS SCHEME

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15MR553

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019

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. List the difference between soldering and brazing. (08 Marks)
b. With the help of a sketch, explain oxy – acetylene gas welding process. (08 Marks)

OR

- 2 a. Explain the plastic welding and fusion welding. (06 Marks)
b. Write the classification of solid phase welding. (06 Marks)
c. Write the defects in welding joints. (04 Marks)

Module-2

- 3 a. With the help of sketch, explain briefly the different steps involved in a shell moulding process. (08 Marks)
b. Write with a neat sketch, explain Squeeze casting process. (08 Marks)

OR

- 4 a. Write the casting defects. (06 Marks)
b. Write short notes about sand casting. (05 Marks)
c. Write short notes about pattern and core making. (05 Marks)

Module-3

- 5 a. Write the advantages and disadvantages of Honing and Lapping process. (10 Marks)
b. Write short notes on Selection of cutting speed and work speed. (06 Marks)

OR

- 6 a. Explain the factors to be considered for selection of grinding wheels. (08 Marks)
b. Explain the following grinding wheel parameters : (08 Marks)
i) GRT ii) Grade iii) Structure.

Module-4

- 7 a. Explain the forging and rolling process. (08 Marks)
b. Explain the Shot peening process. (08 Marks)

OR

- 8 a. Write the different types of dies. (06 Marks)
b. Explain blanking process with diagram. (06 Marks)
c. Write short notes on Hot and Cold working. (04 Marks)

Module-5

- 9 With a neat sketch, explain the working of Lathe Machine with parts and operations. (16 Marks)

OR

- 10 a. Write the difference between Conventional and CNC machines. (06 Marks)
b. Write and list out the different types of Milling machines and operations. (05 Marks)
c. Write the Specification of Drilling machines. (05 Marks)

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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.