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15MR553

## Fifth Semester B.E. Degree Examination, June/July 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. Explain briefly with an example the term fabrication. (04 Marks)  
b. Explain the working of Gas Metal-Arc Welding (GMAW) with a schematic of a gas metal arc-welding setup. (12 Marks)

OR

- 2 a. Explain about the defects in welding. (08 Marks)  
b. Differentiate between MIG and TIG welding. (08 Marks)

### Module-2

- 3 a. Define pattern and briefly explain pattern allowance. (08 Marks)  
b. Briefly explain the properties of moulding sand. (08 Marks)

OR

- 4 a. Explain briefly about casting defects. (08 Marks)  
b. Explain shell molding process with neat sketch. (08 Marks)

### Module-3

- 5 a. What is meant by Honing? Write the conditions for Honing. (08 Marks)  
b. Explain the following terms :  
i) Lapping  
ii) Super finishing  
iii) Polishing and buffing  
iv) Abrasive – belt grinding. (08 Marks)

OR

- 6 Explain briefly about ship hull finishing. (16 Marks)

### Module-4

- 7 a. Explain the term hot working and cold working. (08 Marks)  
b. Explain the terms : i) Blanking ii) Piercing iii) Pouching iv) Trimming. (08 Marks)

OR

- 8 Explain briefly about bending and draw the nomenclature of bending. (16 Marks)

### Module-5

- 9 a. Write down the operations performed in a centre lathe. (08 Marks)  
b. Explain about different types of tools used on lathe. (08 Marks)

OR

- 10 a. Explain the errors in tool settling. (08 Marks)  
b. Write a note on taper turning methods. (08 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.