

# CBGS SCHEME

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15MR553

## Fifth Semester B.E. Degree Examination, June/July 2018 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. Definition of welding and write the classification of welding. (05 Marks)  
b. Write a note on Electrodes used in Arc-welding. (05 Marks)  
c. With a neat sketch, explain the sport welding. (06 Marks)

OR

- 2 a. Write the advantages and Disadvantages of welding. (05 Marks)  
b. Problems Encountered in underwater welding. (05 Marks)  
c. Write the welding defects. (06 Marks)

### Module-2

- 3 a. What are the desirable properties of moulding sand? (08 Marks)  
b. With a neat sketch, explain the working of Electric Arc Furnace. (08 Marks)

OR

- 4 a. List and briefly explain the different steps involved in a casting process. (08 Marks)  
b. Discuss in detail the different materials used in making a pattern. (08 Marks)

### Module-3

- 5 a. Mention the various Bonding processes and explain verified and resinoid bonding processes. (08 Marks)  
b. Briefly explain the External cylindrical centre less grinding with a neat sketch. (08 Marks)

OR

- 6 a. Explain briefly the honing process with a neat sketch. (08 Marks)  
b. Explain with a neat sketch the lapping process. (08 Marks)

### Module-4

- 7 a. Differentiate between Hot working and cold working processes. (08 Marks)  
b. With a simple sketch, explain different steps of forging operations. (08 Marks)

OR

- 8 a. With simple sketches, explain the drawing die. (08 Marks)  
b. List and explain different methods of Tube drawing. (08 Marks)

### Module-5

- 9 a. Mention the methods of Taper Turning and Explain the taper turning by swiveling the compound rest method. (08 Marks)  
b. Explain the following operation on Drilling machines.  
i) Reaming ii) Boarding iii) Counter Boring iv) Counter sinking. (08 Marks)

OR

- 10 a. Differentiate between up milling and down milling. (08 Marks)  
b. Draw neat sketch of a radial drilling machine and indicating parts. (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.