

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

17MR553

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Marine Manufacturing Technology

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Define Welding process and illustrate the flow chart of classification of welding. (10 Marks)
b. Sketch and explain the working of Gas Metal Arc Welding (GMAW). (10 Marks)

OR

- 2 a. Classify the Merits and Demerits of welding process. (10 Marks)
b. Compile the MIG and TIG welding process. (10 Marks)

Module-2

- 3 a. Construct with help of neat sketch, explain the steps involved in a shell moulding process. (10 Marks)
b. With help of neat diagram squeeze casting process, explain working process. (10 Marks)

OR

- 4 a. Summarize the different steps involved in casting process. (10 Marks)
b. Name and explain the casting defects. (10 Marks)

Module-3

- 5 a. Show and summarize the advantages and disadvantages of Honing and Lapping process. (12 Marks)
b. Write and conclude about selection of cutting speed and work speed. (08 Marks)

OR

- 6 a. Name out the factor to be considered for the selection of grinding wheels. (10 Marks)
b. Explain the following grinding wheel parameters i) GRT ii) Grade iii) Structure. (10 Marks)

Module-4

- 7 a. Illustrate the neat diagram of Forging and Rolling process. (10 Marks)
b. Explain the working of Hot-rolling and Cold-rolling process. (10 Marks)

OR

- 8 a. Explain the Different Methods of Tube Drawing. (10 Marks)
b. Write the Different Types of Dies. (10 Marks)

Module-5

- 9 Illustrate the neat diagram and Lathe and label the parts. Explain. (20 Marks)

OR

- 10 a. With neat sketch, explain Up Milling and Down Milling. (10 Marks)
b. Illustrate with neat diagram, explain working of Radial Drilling Machine. (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.