

***B.Tech. Degree IV Semester Examination in
Marine Engineering June 2013***

MRE 402 PRODUCTION TECHNOLOGY

Time : 3 Hours

Maximum Marks : 100

(5 x 20 = 100)

- I. (a) Explain the different types of hammers and their uses.
(b) With neat sketches explain the tools used in carpentry.
OR
- II. (a) Discuss the heat generation and decipation in metal cutting operation.
(b) What is machinability? Explain factors affecting machinability.
- III. (a) Differentiate between Capstan and Turret lathe.
(b) Explain the different types of milling cutters and milling machines available.
OR
- IV. (a) Explain the working of hydraulic mechanism that is used in a shaper machine.
(b) What are the different types of drilling machines available? Explain any one type in detail. List the operations which can perform on a drilling machine.
- V. (a) Describe (i) Vernier depth gauge (ii) Vernier height gauge.
(b) With the aid of a neat sketch explain a micrometer. What are the sources of errors on it?
OR
- VI. (a) Write notes on (i) Interchangability (ii) Limit systems.
(b) With the aid of a neat sketch explain a dial gauge and its use.
- VII. (a) Write notes on source of danger and method of protection.
(b) What is bedding of bearing?
OR
- VIII. (a) What are the design considerations for valves?
(b) List the various types of packing materials.
- IX. (a) What are the advantages of electrode coating in arc welding?
(b) Differentiate between arc welding and resistance welding.
OR
- X. (a) Explain gas welding in detail.
(b) What is braging? Where is it used?