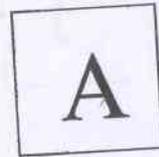


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B.Tech. Degree III Semester Examination in Marine Engineering December 2019

MRE 1303 WORKSHOP TECHNOLOGY (2013 Scheme)

Maximum Marks : 100

Time : 3 Hours

(5 × 20 = 100)

- I. (a) Explain the different types of files used in bench working.
(b) Explain the tool nomenclature in detail.
OR
- II. (a) Explain the Orthogonal cutting and Oblique cutting method with suitable sketches.
(b) Explain the chip formation in cutting process.
- III. (a) What are the different types of drilling machines? Explain any one in detail.
List the operations, which can perform on a drilling machine.
(b) Write notes on: (i) Honing (ii) Lapping (iii) grinding (iv) jigs and fixtures
OR
- IV. (a) Explain the different types of milling cutters and milling machines available.
(b) Explain the different types of taper turning methods in lathe.
- V. (a) Explain limit, fit, tolerance and allowance.
(b) Explain the hole based and shaft based systems of limits and fits.
OR
- VI. (a) Explain the vernier principle as used in linear measurement.
(b) What are gauges? How they are classified?
- VII. (a) What are the different types of flow control valve? Explain the working of any one of them.
(b) Explain different types of personal safety devices.
OR
- VIII. (a) Explain bedding of bearings.
(b) Explain the Salient features of Factory Act related to safety.
- IX. (a) Explain neutral, oxidizing and reducing flames in gas welding.
(b) Differentiate between soldering and brazing?
OR
- X. (a) What are the functions of coating on shielded electrode?
(b) What is the principle of operation of arc welding?
