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***B.Tech. Degree III Semester Examination in
Marine Engineering December 2014***

MRE 1303 WORK SHOP TECHNOLOGY

Time : 3 Hours

Maximum Marks : 100

(5 x 20 = 100)

- I. (a) Explain the different types of files used in bench working.
(b) Draw a neat sketch of twist drill and explain its parts.
- OR**
- II. (a) Describe the various nomenclatures of a single point cutting tool, with adequate illustrations.
(b) Explain the difference between orthogonal cutting and oblique cutting.
- III. Explain the principle of quick return motion (crank and slotted lever type), with the help of a neat diagram.
- OR**
- IV. (a) Compare up milling and down milling.
(b) Briefly explain the following wood working machines.
(i) Wood working lathe
(ii) Circular saw
(iii) Band saw
- V. Explain the important parts of a Vernier caliper, with the help of a neat sketch.
- OR**
- VI. What are gauges? How they are classified? Enumerate
(i) Screw pitch gauges
(ii) Radius and fillet gauges, and
(iii) Feeler gauges.
- VII. (a) Explain the different types of packing and jointing materials used while fitting and overhauling.
(b) Describe the term "Bedding of bearings".
- OR**
- VIII. (a) Enumerate different types of safety guards used in industries.
(b) Briefly explain the aims and objectives of Factories Act 1948, regarding safety.
- IX. Describe the five basic types of joints commonly used in fusion welding.
- OR**
- X. (a) Draw and explain the various components of a gas welding equipment.
(b) Explain Neutral, Oxidising and reducing flames, with their uses.
