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***B.Tech. Degree IV Semester Examination in  
Marine Engineering June 2014***

**MRE 402 PRODUCTION TECHNOLOGY**

Time : 3 Hours

Maximum Marks : 100

(All questions carry equal marks)

(5 x 20 = 100)

- I. (a) Explain different types of (i) hammers (ii) chisels (iii) drill bits.  
(b) What are the tools used in smithy?

**OR**

- II. (a) Describe generation and dissipation of heat in metal cutting while using a single point cutting tool.  
(b) Explain the estimation of machinery time.

- III. (a) What are the various operations that can be performed on a lathe?  
(b) Explain a drilling machine with the help of a neat sketch.

**OR**

- IV. (a) Explain the process of honing and lapping.  
(b) Write notes on :  
(i) Wood working machine.  
(ii) Jigs and fixtures.

- V. (a) Describe a micrometer screw gauge with the help of a neat sketch. How are measurements taken on it?  
(b) Write notes on :  
(i) Feeler gauge.  
(ii) Wire gauge.

**OR**

- VI. (a) Explain principle of interchangeability.  
(b) Write notes on limit system.
- VII. (a) Explain different types of packing and joining materials and their selection.  
(b) Write notes on bedding of bearing.

**OR**

- VIII. Explain the design considerations and construction of various types of valves and cocks.
- IX. (a) Explain the process of gas welding in detail.  
(b) Differentiate between soldering and brazing.

**OR**

- X. (a) Write notes on :  
(i) Arc welding electrodes.  
(ii) Welding transformer.  
(iii) Safety measures.

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