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

MRE 601 MANAGEMENT SCIENCE

Time : 3 Hours

Maximum Marks : 100

(All questions carry EQUAL marks)

PART A

(5 x 20 = 100)

- I. (a) What are the objectives of sound management? Explain. (10)
 (b) What do you mean by SWOT analysis? Discuss with some examples from academics. (10)
- OR**
- II. (a) Explain the principle of organization with suitable examples. (10)
 (b) Write explanatory notes on (10)
 (i) Authority
 (ii) Responsibility
 (iii) Accountability
- III. (a) Differentiate between production systems normally seen in industries. (10)
 (b) Write short notes on (10)
 (i) Standardization
 (ii) Simplification
 (iii) Specialization
- OR**
- IV. (a) Explain the functions of production, planning and control. (10)
 (b) What are the factors influencing plant layout? Discuss. (10)
- V. (a) Differentiate between PERT and CPM with network diagrams. (10)
 (b) Discuss the importance of sales forecasting in industries with suitable examples. (10)
- OR**
- VI. (a) What is EOQ? Explain with the basic model equation and diagram. (10)
 (b) Write notes on (10)
 (i) Job evaluation and merit rating.
 (ii) Preventive and breakdown maintenance.
- VII. (a) What is working capital? Explain the determinants affecting working capital. (10)
 (b) Differentiate between balance sheet and profit and loss account. (10)
- OR**
- VIII. (a) Explain factory costing with a simple example starting from prime cost. (10)
 (b) List any four financial ratios used in industries and explain its importance in performance evaluation. (10)
- IX. (a) How can we assess the training needs of an employee? Explain. (10)
 (b) Write notes on (10)
 (i) Recruitment and selection
 (ii) Performance appraisal.
- OR**
- X. (a) What are the legal requirements of working conditions in an industry? Briefly explain. (10)
 (b) Define accident; Discuss the issues related to an accident in a manufacturing industry. (10)