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**B.Tech. Degree VI Semester Examination in Marine Engineering  
May 2019**

**MRE 1601 MANAGEMENT SCIENCE  
(2013 Scheme)**

Time : 3 Hours

Maximum Marks : 100

(5 × 20 = 100)

- I. (a) Describe the various levels of management and their respective functions with a neat sketch. (10)  
(b) Enumerate the process of organization. (10)
- OR**
- II. (a) Explain the various managerial skills. (10)  
(b) Discuss in detail the principles of scientific management. (10)
- III. (a) Elaborate the different functions of Production Planning and Control (PPC), with neat diagrams. (10)  
(b) Draw the network diagram from the following information. (10)

Activity A is starting activity  
B follows A  
C&D follows B  
F&G both follow C  
H follows F  
I follows G&E  
J follows H  
K follows I and  
L follows K & J.

**OR**

- IV. (a) Describe the various types of production systems with their advantages and disadvantages. (10)  
(b) Draw the network diagram for the project, the details are as in the table below. Find out the project duration, critical path and float for each activity. (10)

Activity	Predecessor activity	Duration (days)
A	-	5
B	-	7
C	-	4
D	A	7
E	C	6
F	A	5
G	B,D,E	8
H	C	6

- V. (a) Elaborate on sales forecasting and explain why it is important. (10)  
(b) Describe preventive maintenance and condition based maintenance with their advantages and disadvantages. (10)

**OR**

(P.T.O.)

VI. (a) Enumerate the importance of job evaluation, work study and merit rating, in an organization. (10)

(b) What is Total Quality Management (TQM)? Describe the process of TQM implementation. (10)

VII. (a) Discuss Balance Sheet and Profit and Loss Account statements. Explain their relevance in an industry. (10)

(b) What is depreciation? Elaborate the different methods of calculating depreciation. (10)

OR

VIII. (a) Explain in detail the various financial ratios, with their importance in Financial Analysis. (10)

(b) Discuss the process of budgeting. How budgetary control is effected. (10)

IX. (a) Which are the important essentials of Management By Objectives (MBO)? (10)

(b) Elaborate the functions of leadership. (10)

OR

X. (a) Discuss the advantages and limitations of Management By Objectives (MBO). (10)

(b) Describe workers participation in management. Brief its objectives and various forms of participation. (10)

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Activity	Predecessor activity	Duration (days)
A		3
B	A	4
C	A	2
D	B, C	5
E	C	3
F	D, E	4
G	F	2
H	F, G	3