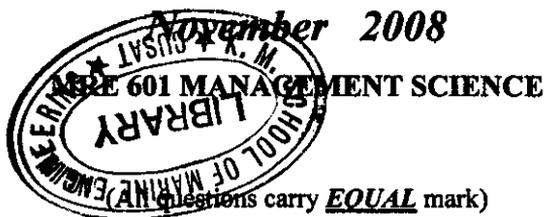


**B.Tech. Degree VI Semester Examination in Marine Engineering**

Time: 3 Hours

Maximum Marks: 100

- I a) Describe origin and growth of Modern Management Thought. (10)  
 b) What is SWOT analysis? Why is it done? (10)

**OR**

- II a) What are the factors to be considered when locating a plant? Explain. (10)  
 b) Discuss the features, merits and demerits of various organization structures. (10)

- III a) Differentiate between systems for products and services production and delivery. (10)  
 b) What are the activities to be carried out under Production, Planning and Control? Discuss with an example. (10)

**OR**

- IV a) For the following project with the activity, precedence, relationship and duration given below, find the critical path and project duration. (10)

Activity	Immediate Predecessor	Activity Duration (in days)
1	-	2
2	1	3
3	1	2
4	2	4
5	3,4	5
6	2	2
7	5	6
8	5	7
9	7	3
10	9	1
11	8, 10	5
12	9	7
13	11, 12	8

- b) The annual demand for a product is 10,000 units. It costs Rs. 100 per unit. The carrying cost is 25% of cost per annum. The ordering cost is Rs. 200 per order. Calculate the Economic Order Quantity. (10)

- V a) What is work study? Explain how it is carried out. (10)  
 b) What is preventive maintenance? How is it carried out in practice? (10)

**OR**

- VI a) What is safety stock? How can it be calculated? (10)  
 b) Differentiate between Job Evaluation and Merit Rating and their use. (10)

- VII a) What are the methods of Capital Formation? Explain. (10)  
 b) What is Budgetary Control? How is it used? (10)

**OR**

- VIII a) What is costing? What are its uses? (10)  
 b) In a project you can set up a plant that has fixed cost of Rs. 2 lakhs per annum. The variable cost of an item produced from the plant will be Rs. 40 per unit. The item is expected to bring in sales revenue of Rs. 60 per unit. What is the break-even point? in this case? (10)

- IX a) Why are some companies using Psychological Tests when recruiting officers? Explain. (10)  
 b) What is Performance Appraisal? Why is it used? (10)

**OR**

- X a) Explain Maslow's need hierarchy theory. (10)  
 b) What are the functions of trade unions in industry? Explain. (10)