

**DIPLOMA VIEP MECHANICAL ENGINEERING  
(DMEVI)**

**Term-End Examination**

**December, 2013**

**BIMEE-030 : INDUSTRIAL ORGANIZATION AND  
MANAGEMENT**

*Time : 2 hours*

*Maximum Marks : 70*

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- Note :**
- (i) Answer **any five** questions only.
  - (ii) Assume suitable data if any missing.
  - (iii) Use of scientific calculator is allowed.
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- 1. (a) Define management and explain the concepts of management . What are the various management principles? 7
- (b) "For the most part, individual decision making in organizations is an irrational process" Do you agree or disagree ? Discuss. Explain the decision making process. 7
- 2. (a) Explain the term, " organisation structure". What are the characteristics of a sound organisation structure? 7
- (b) Define motivation. Briefly enumerate the importance of motivational techniques. 7
- 3. (a) Discuss in detail the various factors that determine the working capital requirement of a firm. 7
- (b) What do you understand by ABC analysis of inventories ? What are its advantages and limitations ? 7

4. (a) A manufacturer has to supply his customers 600 units of his product per year. Shortages are not allowed and the inventory carrying cost amounts to Rs 0.60 per unit per year. The set up cost per run is Rs 80. Find
- (i) The Economic Order Quantity
  - (ii) The minimum average yearly cost
  - (iii) The optimum number of orders per year
  - (iv) The optimum period of supply per optimum order.
- (b) Define "budget". Explain how budgets are used to plan allocation of resources and to control over the activities of various departments in an industry. 7
5. (a) Describe purchasing procedure to be adopted for a medium size industry. 7
- (b) A small project consists of six activities with the following information. 7

Activity	Normal duration (days)	Crash duration (days)	Crashing cost(Rs/day)
1-2	9	6	20
1-3	8	5	25
1-4	15	10	30
2-4	5	3	10
3-4	10	6	15
4-5	2	1	40

- (i) Draw the network and obtain normal and minimum project duration.
- (ii) Find the additional cost of the project for the minimum project duration.

6. (a) Explain various tools of productivity. How productivity can be increased. 7
- (b) The fixed costs for the financial year 2010-11 are Rs.40,000. The sales for this period are of Rs.100,000. The variable cost per unit is Rs 2. Selling price of each product is Rs 10 and the number of units involved coincides with the expected volume of output. Construct the break-even chart and determine :
- (i) Break-even point
- (ii) What is the minimum number of products that should be sold to earn profit?
- (iii) Profit earned at a turnover of Rs.80,000
- (iv) Margin of safety.
7. Write short notes on *any four* of the following :
- (a) Quality circles 3½x4=14
- (b) Functions of RBI
- (c) Enterprise Resource planning (ERP)
- (d) Industrial dispute
- (e) Efficiency and Effectiveness
- (f) Just-in-Time Technology (JIT)
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