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**DIPLOMA VIEP MECHANICAL ENGINEERING
(DMEVI)**

Term-End Examination

June, 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) "Management is the art of getting things done through other people." Explain the importance of management in the light of this statement. 7
- (b) Decision making is the essence of management. Discuss. Explain with examples of decision making under certainty and uncertainty. 7
2. (a) Why is the 'line and staff' organization preferred to the line type of organization in today's industry ? Describe the implication of the relationship of staff departments with line departments. 7

- (b) Discuss the role of human resource department with regards to : 7
- (i) Selection
 - (ii) Training
 - (iii) Placement
3. (a) Explain different methods of raising finance. 7
- (b) Explain the concept of JIT. How does it help the manufacturing system to improve productivity ? 7
4. (a) The annual demand for an item is 3200 units. The unit cost is Rs. 6/- and inventory carrying charges 25% per annum. If the cost of one procurement is Rs. 150/-, determine : 7
- (i) Economic Order Quantity
 - (ii) No. of orders per year
 - (iii) Time between two consecutive orders
 - (iv) Optimal cost
- (b) Define productivity. What are the factors affecting productivity ? State the advantages of increasing productivity to : 7
- (i) Management
 - (ii) Employees
 - (iii) Society

5. (a) Explain the different methods of purchasing. 7
- (b) The following table gives data of normal time and cost and crash time and cost for a project. 7

Activity	Normal		Crash	
	Time (days)	Cost (Rs.)	Time (days)	Cost (Rs.)
1 - 2	6	60	4	100
1 - 3	4	60	2	200
2 - 4	5	50	3	150
2 - 5	3	45	1	65
3 - 4	6	90	4	200
4 - 6	8	80	4	300
5 - 6	4	40	2	100
6 - 7	3	45	2	80

The indirect cost per day is Rs. 10.

- (i) Draw the network for the project.
- (ii) Find Critical Path.
- (iii) Determine minimum total time and corresponding cost.
6. (a) What are the salient features of Kaizen ? 7
Discuss the types of Kaizen.

- (b) The fixed costs for the year 2011-12 are Rs. 500,000 variable cost per unit is Rs. 25. The estimated sales for the period are valued at Rs. 1,500,000. Each unit sells at Rs. 150. Determine :
- (i) Break - even - point
- (ii) Rs. 1,200,000 will be the likely sales turnover for the next budget-period, calculate the estimated contribution and profit.
- (iii) If a profit target of Rs. 650,000 has been budgeted, compute the turnover required.

7. Write short notes on *any four* of the following :

- (a) Six Sigma **3¹/₂x4=14**
- (b) Motivation and Morale
- (c) Span of Control
- (d) ABC Analysis
- (e) Hazard Management
- (f) Electronic Banking
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