

M.B.A. Semester-II Examination
PRODUCTION AND OPERATIONS MANAGEMENT
Paper-MBA/206

Time : Three Hours]

[Maximum Marks : 70

- Note :—** (1) Attempt **ALL** questions.
(2) Use of scientific calculator is permitted.

SECTION—A

1. (A) What is Production Management ? What is Operations Management ? Discuss the scope of Production and Operation Management. 14

OR

- (B) What is Plant Layout ? What is Plant Location ? What factors will you consider during the decision of Plant Layout and Plant location ? 14

SECTION—B

2. (A) Discuss any two methods of Inventory control. 7
(B) You are appointed as a Purchase Manager, in a newly formed purchase department. To make this department an efficient purchasing department, what purchase procedure will you develop ? Justify. 7

OR

- (C) Discuss the few indices to judge the performance of material management function in an organization. 7
(D) The demand for an item is deterministic and constant over time at 6000 units/year. The item costs Rs. 500 per unit with cost of placing the order being Rs. 50. The inventory carrying cost is 20%. Find the EOQ and also total number of orders to be placed per year. 7
3. (A) How work study helps manager to improve production ? Explain. 7
(B) As a production manager you are required to take the decision whether the steps related to corrective maintenance or preventive maintenance steps should be taken. Illustrate your decision with example and justify the decision you have taken on the basis of cost. 7

OR

- (C) What is work measurement ? How it is helpful in improving the workers, performance and productivity ? Explain. 7
(D) A time study was conducted on a job consisting of three elements. Continuous stop watch readings in minute are given. Using cumulative timing method along with rating factors. Calculate the standard time if allowances are 12%.

Elements	Stop watch reading					Rating
	1	2	3	4	5	
A	10	73	139	203	266	80%
B	25	88	155	218	280	100%
C	64	128	193	257	320	110%

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SECTION—C

4. (A) Discuss the basic factors influencing quality. 7
(B) Explain concept of quality circle. 7

OR

- (C) Explain the role of control charts in quality control. 7
(D) Explain various strategies used in Aggregate Planning in any manufacturing organisation. 7

SECTION—D

5. A company wishes to assign 4 salesman to 4 districts. The volume of sales matrix is given below. Make the optimal assignment which results in maximum value of sales.

Salesman	Districts			
	A	B	C	D
1	250	300	420	400
2	350	400	200	250
3	500	375	400	350
4	400	320	420	300

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