

Fifth Semester B. E. (Mechanical Engineering) (CGS) Examination

PRODUCTION MANAGEMENT

Paper – 5 FEME 05

(USC – 10847)

P. Pages : 3

Time : Three Hours]

[Max: Marks : 80

- Note :** (1) Separate answer book must be used for each section in the subject Geology. Engineering material of Civil branch and separate answer book must be used for Section A and B in pharmacy and Cosmetic Tech.
- (2) All questions carry marks as indicated.
- (3) Answer **Three** questions from Section A and **Three** questions from Section B.
- (4) Due credit will be given to neatness and adequate dimensions.
- (5) Assume suitable data wherever necessary.
- (6) Illustrate your answer wherever necessary with the help of neat sketches.
- (7) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION A

1. (a) Explain various manufacturing Process Technologies. 7
- (b) Name and describe the ways by which a new product can be developed. 7

OR

2. (a) Define standardization. State its importance and limitations. 7
- (b) What is Flexible Manufacturing Systems (FMS) ? What are its advantages ? 7
3. (a) Explain and differentiate between process, product and fixed layout. 7
- (b) Describe 'Delphi Technique' of forecasting with its advantages and limitations. 6

OR

4. (a) What relationships exist between the layout and location decisions ? 7
(b) Name and describe the various factors affecting sales forecasting. 6
5. (a) Capacity will be modified in response to demand. Demand will be modified in response to capacity. Which of these two statements is correct ?
Why ? 7
(b) Contrast job enlargement and job enrichment. Are they mutually exclusive ? 6

OR

6. (a) Differentiate conventional compensation systems with incentive systems. As a beginning engineering trainee, which would you prefer ? Why ? 7
(b) How is product mix related to the capacity utilization decision? 6

SECTION B

7. (a) Compare and contrast rough – cut with aggregate capacity planning. 6
(b) What are priority sequencing rules ? Why are they needed ? 7

OR

8. (a) Discuss the advantages and limitations of Gantt chart. 6
(b) Explain how aggregate plans and master production schedules initiate functional activities of the organization. 7
9. (a) What is meant by the ABC classification ? How might an organizations inventory be analyzed using the ABC classification ? 8
(b) A television manufacturer requires 24,000 two cm long pieces of wire every month for assembly. Ordering costs are estimated at 42 Rs. And the cost of carrying is 25 % of the unit price, which is 0.08 Rs. Assuming delivery is instantaneous, find the reorder point and economic order qty. 6

OR

10. (a) Name and describe the various inventory models in brief. 8
(b) An engineering co. consumes electrodes at the rate of 600 electrodes per month. The cost of one packet (Containing 12 electrodes) is Rs. 48. The cost of placing an order and processing the delivery comes out to be Rs. 24 per order. The inventory carrying cost is 16% of average inventory investment. Determine the EOQ. 6
11. (a) Is TQM more applicable in manufacturing industry as compared to service industry ? Discuss. 6
(b) How are maintainability, availability and quality control related ? 7

OR

12. (a) Explain Taguchi's off – line quality control method in brief. 7
(b) How is organizational structure important in the management of quality ? 6



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