



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 140860

Roll No.

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B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15
PRODUCTION & OPERATIONS MANAGEMENT

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

1 Answer any four of the following : 5×4=20

- (a) Explain the meaning and scope of operations strategy.
- (b) Identify the important operations priorities and explain them in brief.
- (c) Starting 1990 onwards describe the changes that have occurred in competitive priorities of the industries.
- (d) Elaborate the advantages of operation management giving suitable examples.
- (e) Operation management is different from production management. Justify the statement.
- (f) Discuss the system view of P&OM.

2 Attempt any four parts of the followings : **5×4=20**

- (a) Explain the meaning and scope of SLP.
- (b) With the help of input output model describe the nature of primary inputs and the transformation functions for (i) Hospital (ii) College/School.
- (c) Differentiate between product and fixed position layout. State their applications.
- (d) What factors must be considered while locating a service facility ?
- (e) Briefly describe the important capacity planning concepts. What is meant by best operating level ?
- (f) Discuss the factors considered while designing a plant layout.

3 Attempt any two parts of the following : **10×2=20**

- (a) Discuss meaning of who, when, why and how for job design. Explain what are the advantages and disadvantages of labour specialization and job enrichment in job design.
- (b) What are the limitations of CPM ?
- (c) What considerations must be made while planning capacity for service facility/manufacturing ?

4 Attempt any two parts of the following : **10×2=20**

- (a) Discuss what is implied by the word aggregate in aggregate planning ? State the inputs required for aggregate planning.
- (b) Explain the meaning of lateness and tardiness of job.
- (c) Describe the functions that must be performed in scheduling and controlling an operation. Give the list of commonly used measures for performance evaluation.

5 Attempt any two parts of the following : **20**

- (a) Installing MRP system tends to bring an integration of materials management and production management. Discuss.
- (b) Explain the following :
 - (i) Long range capacity planning
 - (ii) Rough cut capacity
 - (iii) Short term capacity planning
- (c) List and elaborate different ways and methods derived for meeting out competition at the global level. How do you feel that P&OM is an effective tool in meeting out competition and challenges at the global level ?