

MA-171

Seat No. \_\_\_\_\_

**Third Year B. B. A. Examination**

March / April – 2003

**Manufacturing & Materials Management**

Time : 3 Hours]

[Total Marks : 70

**Instruction :** All questions are **compulsory** and carry **equal** marks.

- 1 (a) Define production management and explain its main functions. 7  
(b) State different production systems / methods and explain the characteristics of mass production method. 7

OR

- 1 (a) Carry out the comparative study of rural site and urban site in detail relating to plant location. 7  
(b) Highlight the main principles of material handling. 7
- 2 (a) Define work study and explain the objectives of it in detail. 7  
(b) Short notes on the following : 7  
(i) Flow process chart  
(ii) Flow diagram.

OR

- 2 (a) Define the following : 7  
(i) Productivity  
(ii) Occasional elements  
(iii) Allowances  
(b) Discuss the steps involved in time study. 7
- 3 (a) Highlight the main objectives of production planning and control in detail. 7  
(b) With the help of the following table find the following : 7  
(i) CPM network diagram  
(ii) EST, EFT, LST and LFT

- (iii) Critical activities and critical path
- (iv) Critical path duration
- (v) Slack / float for each activity.

Activity	Predecessor	Time in days
A	-	8
B	-	12
C	-	16
D	C	8
E	A,B	16
F	E,D	8
G	D	6
H	F,G	6

- 3 (a) Short notes on the following : 7
- (i) Gantt Chart
  - (ii) Operation and Route sheet.
- (b) What are the different times to be considered in PERT ? – Explain. 7
- 4 (a) Define Materials Management and explain main functions of it in brief. 7
- (b) Define industrial purchasing and explain the steps involved in purchasing in brief. 7

OR

- 4 (a) What do you understand by centralised and decentralised purchasing ? Explain their merits and demerits. 7
- (b) Short notes on the following : 7
- (i) Vendor selection
  - (ii) Purchasing through DGS&D.
- 5 (a) Short notes on the following : 7
- (i) Stores layout
  - (ii) Accounting of stores.
- (b) A small scale industry purchases an item at the rate of Rs. 75/- per piece. The monthly consumption is 2000 7

units. If the ordering cost is Rs. 400/- per order and carrying cost is 35% per annum of average inventory.

Find out :

- (i) EOQ
- (ii) Number of orders / year
- (iii) Order interval
- (iv) Optimum cost / year

OR

- 5 (a) Define inventory and explain classification of inventory in an industry. 7
- (b) What do you know about inventory control? Discuss its any two techniques in detail. 7
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