



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : HSMC-501 Introduction to Industrial Management (Humanities III)

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (i) _____ is decided on the basis of ordering cost and carrying cost.
- (ii) What is GOLF Analysis ✓
- (iii) What is Function Cost Matrix? ✓
- (iv) ERP supports _____ currency value
- (v) Which type of organization is temporary by nature
- (vi) Which colour is used to illustrate actual progress in bar charts?
- (vii) What is the symbol for activity in a network diagram? ✓
- (viii) _____ shows minimum stock to be maintained.
- (ix) Production Planning and Control function is crucial for ensuring efficiency and cost savings in_
- (x) State the types of values
- (xi) Who is the head of production department?
- (xii) What is PERT Analysis? ✓

Group-B (Short Answer Type Question)

Answer any three of the following

[5 x 3 = 15]

1. List, in order, the six steps basic to both PERT and CPM. [5]
2. Calculate minimum stock level, maximum stock level, and re-ordering level: [5]
 - (i) Maximum Consumption = 300 units per day
 - (ii) Minimum Consumption = 180 units per day
 - (iii) Normal Consumption = 190 units per day
 - (iv) Reorder period = 10-15 days
 - (v) Reorder quantity = 2,000 units
 - (vi) Normal reorder period = 13 days.
3. Discuss the difference between CPM and PERT. ✓ [5]
4. State the difference between Industrial management and Product Management. [5]
5. What is Job Shop Production? ✓ [5]

Group-C (Long Answer Type Question)

Answer any three of the following

[15 x 3 = 45]

7. (a) Write a short note on JIT. ✓ [5]
(b) State the advantages of JIT. [5]
8. (a) State the difference between authority and responsibility ✓ [8]
(b) State the process of creating an organization ✓ [7]
9. (a) State the types of formal organization [10]
(b) Write a short note on informal organization [5]

10. A small project is composed of 7 activities whose time estimates are listed below. Activities are being identified by their beginning (i) and ending (j) node numbers.

[15]

| Activities | | Time in weeks | | |
|------------|---|---------------|----|----|
| i | j | to | tl | tp |
| 1 | 2 | 1 | 1 | 7 |
| 1 | 3 | 1 | 4 | 7 |
| 1 | 4 | 2 | 2 | 8 |
| 2 | 5 | 1 | 1 | 1 |
| 3 | 5 | 2 | 5 | 14 |
| 4 | 6 | 2 | 5 | 8 |
| 5 | 6 | 3 | 6 | 15 |

1. Draw the network
 2. Calculate the expected variances for each
 3. Find the expected project completed time
 4. Calculate the probability that the project will be completed at least 3 weeks than expected
 5. If the project due date is 18 weeks, what is the probability of not meeting the due date?
11. A manufacturing company places a semi-annual order of 24,000 units at a price of Rs. 20 per unit. Its carrying cost is 15% and the order cost is Rs. 12 per order.
- Calculate:
1. What is the most economical order quantity?
 2. How many orders need to be placed?

[15]

*** END OF PAPER ***

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