

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

Paper Code : HSMC-501/HSMC501 Introduction to Industrial Management (Humanities III)

UPID : 005508

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) Define material management. State its objective.
- (II) What is Master Scheduling?
- (III) State advantage of value analysis.
- (IV) Define ERP.
- (V) Define Organization.
- (VI) The expected time (T_e) of a PERT activity in terms of optimistic time (T_o), pessimistic (T_p) and most likely time (T_m) is given by _____
- (VII) What is Economic Order Quantity? State its formula.
- (VIII) What are the phases of PPC?
- (IX) What are unnecessary cost in value engineering?
- (X) What is supply chain management?
- (XI) Difference between "strike" and "lockout".
- (XII) Define critical path in network diagram.

Group-B (Short Answer Type Question)Answer *any three* of the following :

[5 x 3 = 15]

2. What are the five phases of value engineering? [5]
3. State the benefits and demerits of JIT production system. [5]
4. Differentiate between "Line organization" and "Functional Organization". [5]
5. Define the term [5]
(a) Events (b) Activity (c) Critical activity (d) Non Critical activity (e) Dummy activity
6. Explain Organizational culture and climate in detail. [5]

Group-C (Long Answer Type Question)Answer *any three* of the following :

[15 x 3 = 45]

7. The ABC manufacturing company requires 1250 components per month throughout the year for manufacturing electronic equipment. If ordering cost is Rs. 50 per order , unit cost is Rs.5.00 per component and annual inventory carrying cost are 10%, Find EOQ. If the company decides to operate with a back order inventory policy then taking back order cost to be Rs. 7.50 per unit per year, find revised EOQ. [15]
8. What are the main element of Production Planning and Control? Explain in details. [15]
9. Explain value analysis procedure. [5+10]
State the conditions in which value analysis must be applied.
10. Draw and explain ERP cycle. State its merits and demerits. [10+5]
11. Write short note on [5+5+5]
1. Value engineering
2. Test for value analysis
3. Stages in value analysis

*** END OF PAPER ***