

Seat  
No.

--	--	--	--	--	--



मुद्रा- 005

## Resource Management (1102)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any five** questions.
5. Assume suitable data if required.
6. Figures to right indicate full marks.
7. Use of pocket calculator is allowed.
8. Use of probability table is allowed.

1. a) What is ABC analysis ? Where is it used ? Explain procedure of conducting ABC analysis and show it graphically ? 12  
b) What is safety stock ? How is it determined ? 8
2. a) Discuss 4 types of lead time and how they are to be determined, used and efforts to reduce them. 10  
b) Explain MUSIC-3D matrix with an example. 10
3. Explain the "fixed interval" system of giving orders clearly showing the mathematical parameters necessary to operate the system. Explain dis-advantages of this system as compared with the 2-bin system. Draw sketches wherever necessary. 14+6
4. a) Differentiate between "primary" and "secondary" materials objectives with examples. 10  
b) Explain EOQ graphically and how sensitivity analysis on EOQ can help constructions managers. 10

5. 10 "tonnes" steel is to be ordered annually. Cost per "kg" of steel is Rs. 48/- Ordering cost is Rs. 4000/- per order. Inventory carrying cost is 25% of average inventory. Supplier is offering the following discounts.
- Order quantity  $\geq$  5 tonnes  $\rightarrow$  10%
  - Order quantity  $\geq$  3 tonnes < 5 tonnes  $\rightarrow$  8%
  - Order quantity  $\geq$  2 tonnes < 3 tonnes  $\rightarrow$  5%
  - Order quantity  $\geq$  1 tonne < 2 tonnes  $\rightarrow$  2%
  - Order quantity < 1 tonne  $\rightarrow$  No discount
- suggest suitable order quantity. 20
6. a) Explain JIT with an example. What modifications are necessary in the Indian context ? Discuss advantages of JIT approach. 2+3+5
- b) Discuss role of the HR manager in a contracting company in detail. 10
7. Explain the following. 20
- Management by objectives - Balanced Scorecard.
  - ERP in construction.
  - Vendor evaluation methods.
  - Role of materials manager.
  - KSA's of HR.

\*\*\*\*\*