

Seat
No.

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महात्मा - 010

ELECTIVE - II
Resource Management

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) Discuss Primary and Secondary materials objectives and explain balancing of objectives with examples. 12
b) Derive formula for EOQ. 8
2. a) Explain qualities necessary for a materials manager. Explain why materials manager role is very important in cost optimization, with examples. 6+6
b) Discuss advantages and limitations of ABC analysis. 8
3. Discuss 7 forms of inventories with examples and explain the need for conducting an effective inventory management on project sites. 14+6
4. Explain with neat sketches the Re-order level system and show clearly the mathematical parameters necessary to operate this system. What are advantages of this system over the fixed interval system ? Explain. 14+6
5. 2 Lakh cement bags are to be ordered annually in a construction project. Cost per bag is Rs. 350/- Ordering cost is Rs. 5,000/- per order. Inventory carrying cost is 20% of average inventory. The supplier offers the following discounts :
 - i) Order quantity $\geq 1,00,000$ bags \rightarrow 8%
 - ii) Order quantity $\geq 50,000$ bags $< 1,00,000$ bags \rightarrow 6%

- iii) Order quantity $\geq 25,000$ bags $< 50,000$ bags $\rightarrow 4\%$
- iv) Order quantity $\geq 10,000$ bags $< 25,000$ bags $\rightarrow 2\%$
- v) Order quantity $< 10,000$ bags \rightarrow No discount.

Suggest suitable order quantity.

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6. a) Explain JIT with an example. Discuss its advantages in general and limitations in the Indian context.

2+10

- b) Differentiate between HRM and HRD with proper examples.

8

7. Example the following :

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- i) Computerized MMS.
- ii) Supplier Evaluation methods.
- iii) Role change based on competency assessment.
- iv) Effectiveness of materials indices.
- v) Job evaluation methods.
