

ROLL No.....

NATIONAL COUNCIL FOR HOTEL MANAGEMENT
AND CATERING TECHNOLOGY, NOIDA
ACADEMIC YEAR - 2017-2018

COURSE : 2nd Semester of M.Sc. in HA
SUBJECT : Equipment & Materials Management
TIME ALLOWED : 03 Hours MAX. MARKS: 100

(Marks allotted to each question are given in brackets)

Q.1. What is material handling? List and briefly explain **any five** material handling equipment.

(3+7=10)

Q.2. Effective operational layout can help in better selection of material handling equipment. Comment.

OR

An auto industry purchases spark plugs @Rs.25/- per piece. The annual consumption of spark plug is 18000 (in no.). If the ordering cost is Rs.250/- per order and carrying cost is 25% per annum, what would be the Economic Order Quantity?

(10)

Q.3. Define method study. What are the factors that forces an organisation to conduct method study?

(2+8=10)

OR

Write an essay on recycling and disposal of water.

(10)

Q.4. Write short notes on **any four**:

- | | |
|---|-------------------------------------|
| (a) Predictive maintenance | (b) Integrated inventory management |
| (c) Total quality management | (d) Objectives of material handling |
| (e) Factors affecting quality standards in a manufacturing unit | |

(4x5=20)

Q.5. What is work measurement? Explain **any five** techniques that can be used for work measurement.

(2+8=10)

Q.6. Discuss the importance of inventory management in relation to ensuring smooth operations. Also list **any five** inventory management techniques.

(6+4=10)

Q.7. What is maintenance management? Explain the different types of maintenance with suitable examples.

(2+8=10)

OR

ABC company has kept records of breakdown of its machines for a 300-day work year, as shown below:

No. of breakdown	Frequency in days
0	40
1	150
2	70
3	30
4	10
	300

The firm estimates that each breakdown costs Rs.650/- and is considering adopting a preventive maintenance program which would cost Rs.200/- per day and limit the number of breakdown to an average of one per day. What is the expected annual savings from preventive maintenance program?

(10)

Q.8. Define the following:

- | | |
|-----------------------------|-------------------|
| (a) Economic Order Quantity | (b) Carrying cost |
| (c) Routing | (d) Scheduling |
| (e) Logistics management | |

(5x2=10)

Q.9. Match the following:

- | | |
|-----------------------------|---------------------------|
| (a) Economic Order Quantity | (i) Incineration |
| (b) Waste disposal | (ii) Carrying cost |
| (c) Fork lift truck | (iii) Stop watch |
| (d) Time study | (iv) Load |
| (e) Work measurement | (v) Analytical |
| (f) Motion study | (vi) Cards and containers |
| (g) Kanban | (vii) Path |
| (h) Materials management | (viii) Identification |
| (i) Codification | (ix) Optimum inventory |
| (j) ABC analysis | (x) Inventory management |

(10x1=10)
