Enrolment No.: ……………………………

Institute of Health Management Research

MBA Hospital and Health Management
Batch-27th (2022-2024) Health Management
Second Year, Term 5 End Term Examination, December 2023

HEM-704 Logistics and Supply Chain Management

Time - 3 Hour **Maximum Marks: 50 (Minimum Marks: 20)**

Instructions to students:

- **This question paper contains 2 printed pages.**
- **Don't write anything on the Question Paper except writing your Enrolment No.**

Part A

(Maximum Marks: 5)

Q1. The following **05 (Five)** questions consist of two statements; one labeled as the 'Assertion (A) and the other as 'Reason (R)'. Examine these two statements carefully and select the answers to these items using the codes given below. Write the selected code in the Answer Sheet Provided. (Each carries 1 mark).

Codes:

Q1. Both A and R are individually true and R is the correct explanation of A.
Q2. Both A and R are individually true but R is not the correct explanation of A.
Q3. A is true but R is false.
Q4. A is false but R is true.
Q5. Both A and R are false

(a) **Assertion A**: ABC analysis helps in prioritizing the focus on the select items responsible for bulk of the inventory cost.

Reason R: ABC analysis is based on the unit cost of the items.

(b) **Assertion A**: Maintainability is function associated with the design phase of equipment.

Reason R : Features incorporated during development could increase the ease of maintenance

(c) **Assertion A**: VVM on the OPV vial is used to indicate the potency of the vaccine.

Reason R: The colour change of special material used in the VVM parallels the heat induced loss of potency of OPV.

(d) **Assertion A** : Weighted Point Method is used for inventory control.

Reason R : By considering all the costs associated with purchasing, it is helpful in calculating the inventory carrying costs

(e) **Assertion A :** CON facilitates turnkey installation.

Reason R : CON is issued by a committee which does the need assessment for equipment purchase .

Part B

(Maximum Marks: 15)

Q2. Write short notes on **ANY THREE** of the following (each carries 5 marks) **:**

(a) Cost Ratio Method

(b) GMSD

(c) Bath Tub Curve

(d) Lead Time

(e) EOQ

Part C

(Maximum Marks: 30)

Write detailed description with suitable illustrations or explanations as applicable on **ANY TWO** of the following (each carries 15 marks):

Q3. Define Inventory and demonstrate the basic inventory model through a suitable illustration. Enumerate various inventory control techniques and discuss VED analysis in detail.

Q4. What do you mean by maintainability? Enumerate quantitative measures that define maintainability. Describe in brief about the types and levels of equipment maintenance that you know of.

Q5. What are the objectives of Purchasing? Give an account of the steps involved in purchase process.