

No. of Printed Pages : 2

Sl. No.

21BHM3C9HE

BHM III Semester Degree Examination, March/April - 2023

HOTEL MANAGEMENT

Hotel Economics and Statistics

(NEP)

Time : 2 Hours

Maximum Marks : 60

SECTION - A

1. Answer the following sub-questions, each sub-question carries **one** mark. **10x1=10**
- (a) What is budget line ?
 - (b) Define Utility.
 - (c) What is demand forecasting ?
 - (d) What do you mean by 'Arithmetical mean' ?
 - (e) Mention one scope of Statistics.
 - (f) What is Demand Schedule ?
 - (g) Write the formula to calculate Range and it's coefficient.
 - (h) What do you mean by 'measures of dispersion' ?
 - (i) Mention any two importance of index numbers.
 - (j) What do you mean by index numbers ?

SECTION - B

Answer **any four** of the following questions, each question carries **five** marks.

4x5=20

- 2. Explain the types of elasticity of demand.
- 3. Write a note on Law of Diminishing Marginal Utility.
- 4. Explain the functions of Statistics.
- 5. Explain the characteristics of a measure of dispersion.

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6. What are the features and uses of index numbers ?
7. Discuss methods of demand forecasting.

SECTION - C

Answer **any three** of the following questions, each question carries **ten** marks.

3x10=30

8. Explain the law of Equi-marginal Utility with graphical representation.
9. State the law of demand and explain the determinant of demand.
10. Compute mean, median and mode of the following distribution.

| | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|
| Classes | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 |
| Frequency | 2 | 18 | 24 | 20 | 8 | 3 |

11. Calculate the, correlation co-efficient between X and Y and comment on their relationship.

| | | | | | | |
|---|---|---|---|----|----|----|
| X | 1 | 3 | 4 | 5 | 7 | 8 |
| Y | 2 | 6 | 8 | 10 | 14 | 16 |

12. Construct price index number of the following data using any two methods.

- (i) Laspeyre's method
 (ii) Paascher's method
 (iii) Fisher's method

| Items | Base Year | | Current Year | |
|-------|-----------|-------|--------------|-------|
| | Quantity | Price | Quantity | Price |
| A | 2 | 4 | 1 | 7 |
| B | 6 | 3 | 4 | 5 |
| C | 3 | 6 | 2 | 9 |
| D | 5 | 5 | 4 | 6 |

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