

Roll No. 34430025
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OB-86

February – March 2024
Bachelor of Hotel Management (BHM) (4 Y. D. C.) Main / Repeat Examination

VII Semester
RESEARCH METHODS

Time 3 Hours]

[Max. Marks 90

Note : Attempt any five questions. All questions carry equal marks.

1. What do you mean by Research ? Classify different types of Research with the help of suitable example. Which type is best suited for Hotel Industry ?
 2. What do you mean by Sample Design ? Discuss different types of Sampling Techniques with the help of suitable examples.
 3. Discuss different methods of collecting data with the help of suitable examples. Differentiate between Observation and Interview.
 4. Discuss various kinds of Charts and Diagrams used in Data Analysis.
 5. Give a diagrammatic representation and brief explanation of Research Process.
 6. Processing of data implies editing, coding, classification and tabulation. Describe in brief these operations in context of Research Study.
7. Construct a Histogram, Frequency Polygon and Ogive using relative frequencies for the distribution of the miles that 20 randomly selected runners ran during a given week :

Class Boundaries	Frequency	Cumulative Frequency
5.5 – 10.5	1	1
10.5 – 15.5	2	3
15.5 – 20.5	3	6
20.5 – 25.5	5	11
25.5 – 30.5	4	15
30.5 – 35.5	3	18
35.5 – 40.5	2	20
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Roll No.
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OB-85

February – March 2024
Bachelor of Hotel Management (BHM) (4 Y. D. C.) Main / Repeat Examination

VII Semester
BUSINESS STATISTICS

Time 3 Hours]

[Max. Marks 90

Note : Attempt any five questions. All questions carry equal marks.

1. Define Statistics. Discuss its scope and limitations in Hotel and Tourism Industry.

2. Explain the concepts : (with examples)

- (a) Geometric Mean.
- (b) Harmonic Mean.

3. Write short notes on the following :

- (a) Criteria for Good Measures of Dispersion.
- (b) Component of Time Series. *Random, Seasonal, Cyclical, Irregular*

4. Calculate Mean, Median and Mode from the following data :

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35
Frequency	4	6	10	16	12	8	4

5. Below are given the number of runs scored by two batsman in 8 matches :

Batsman A	27	16	39	45	101	80	40	52
Batsman B	0	100	80	5	60	40	10	121

- (a) Who is better scorer ?
- (b) Which of the two batsman is more consistent in scoring ?

6. Calculate from the given data :

- (a) Karl Pearson's Coefficient of Correlation.
- (b) Spearman's Rank Correlation Coefficient.

x	:	10	6	9	10	12	13	11	9
y	:	9	4	6	9	11	13	8	4

$$1 - \frac{6 \sum D^2}{n(n^2 - 1)}$$
$$\frac{\sum (\sum x^2) - (\sum x)^2}{n}$$

7. (a) Differentiate between Correlation and Regression.

(b) Find two regression equations :

x	:	1	2	3	4	5	6	7
y	:	2	4	7	6	5	6	5

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