



V. M. SALGAOCAR INSTITUTE
of
INTERNATIONAL HOSPITALITY EDUCATION

B. Sc. International Hospitality Management

Type: Semester End Assessment (SEA)

Date: 09/01/2025

Batch and Trimester: 2022-2025 and VIII

Total Marks: 25

Time Duration: 2 Hours

Course Name: Data Analysis

Course Code: IHOH116

Instructor: Mrs. Nisha Nair / Dr. Sadhvi Manerikar

This paper contains 02 pages in addition to the cover page.

Full Name of the Student: _____

Permanent Registration Number: _____ Class: _____

Marks Obtained: _____ Faculty Signature: _____ Invigilator Signature: _____

Main Answer Sheet	Number of Supplements	Total Number of Answer Sheets
01		

- Carefully read each question at the outset of the paper. All queries must be addressed to the faculty within the first 10 minutes of the examination.
- Students are expected to maintain complete silence in the examination hall and should not interact or communicate with their peers.
- Students will carry only their essential stationery like pens, pencils, ruler and simple calculators into the examination hall.
- Bags, eatables, drinks, etc. will not be allowed inside the hall with the exception of a bottle of water.
- Cell phones, electronic data banks, scientific calculators and smart/beeping watches are prohibited in the examination hall.
- Students will answer the examination with only blue/ black ball point pens unless informed differently by faculty. Avoid usage of green or red ink pens on the answer sheet.
- Dictionaries will not be allowed into examination hall unless informed differently by faculty.



Q.1. Answer the following (Any 5)

(2 x 5 = 10 Marks)

1. A teacher wants to calculate the average test score of her class after excluding the lowest and highest scores, to get a better sense of the overall performance. The test scores of the students are: 45, 78, 82, 89, 92, 94, 98. Calculate the 20% trimmed mean to help the teacher analyse the class performance more accurately. **(2 Marks)**
2. Explain Secondary Data with examples. Also give 1 each advantage and disadvantage of secondary data. **(2 Marks)**
3. Explain the use of geometric mean in calculating the measure of location. **(2 Marks)**
4. As part of its Corporate Social Responsibility (CSR) initiative, a Retail Chain plans to distribute free educational kits to underprivileged children in a rural area. To identify the beneficiaries, they intend to conduct a household survey. What steps should the Retail Chain follow during the planning stage to organize and execute this statistical survey effectively? **(2 Marks)**
5. Define Statistics in the singular sense and explain it briefly giving examples. **(2 Marks)**
6. Explain briefly the types of statistical software giving appropriate examples. **(2 Marks)**
7. The seat occupancy percentages for **Sky High Airlines** across 12 flights last month are:
78, 80, 85, 85, 90, 75, 88, 92, 78, 85, 90, 87.
Calculate the **mean**, **median**, and **mode** for the occupancy data. **(2 Marks)**



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Q.2. A survey records the time spent watching TV daily by 20 individuals. The raw data (ungrouped) is as follows: **(03 Marks)**

Time (in hours): 1, 2, 3, 2, 4, 3, 1, 2, 5, 4, 2, 1, 3, 3, 2, 4, 1, 5, 3, 2

Calculate the frequency, cumulative frequency, relative frequency and cumulative relative frequency.

Q.3. Answer the following (any 4) **(2 x 4 = 8 Marks)**

1. An unbiased die is tossed twice. Find the probability of getting a 4, 5, 6 on the first toss and a 1, 2, 3, 4 on the second toss.
2. If $P(A) = 0.4$, and $P(B) = 0.8$ and $P(B|A) = 0.6$, find $P(A|B)$.
3. In a class of 30 students with roll numbers 1 to 30, a student is picked up at random to answer a question. What is the probability that the roll number of the selected student is a multiple of either 5 or 7?
4. What is a survey and why should it be conducted? What are the different types of survey?
5. Explain in brief the primary data collection techniques.

Q.4. The values of x and their corresponding values of y are shown in the table below. **(04 Marks)**

X	0	1	2	3	4
Y	2	3	5	4	6

- i. Find the least square regression line $y = ax + b$.
- ii. Estimate the value of y when $x = 10$.
