



DT-010-0046007

Seat No. _____

**Third Year Bachelor of Hotel and Tourism
Management (Sem. VI) Examination
April - 2022
6.6.E.2 : Research Methodology
(New Course)**

**Faculty Code : 010
Subject Code : 0046007**

Time : 3 Hours]

[Total Marks : 70

- Instructions :** (1) Attempt any five questions.
(2) All the questions carry equal marks.

- 1 Describe the techniques of defining a research problem. 14
- 2 What is a research problem? Describe its necessity. Give an example. 14
- 3 Explain, as in under what circumstances would you recommend. 14
 - (a) A probability samples
 - (b) A non-probability samples
 - (c) A stratified sample
 - (d) A cluster samples
- 4 Elaborate goodness of measurement scales. Also describe various primary data collection methods. 14
- 5 Answer the following: 7+7=14
 - (a) In a random selection of 64 of the 2400 intersections in a small city, number of accidents per year was 3.2 and the sample standard deviation was 0.8.
 - (i) Make an estimate of the standard deviation of the population from the sample standard deviation.

- (ii) Work out on standard error of mean for this finite population.
 - (iii) If the desired level of confidence is 0.9, what will be the upper and lower limits of the confidence interval for the mean number of accidents per year?
- (b) In a sample of 16 measurements of the diameter of a sphere gave a mean $\bar{X} = 4.58$ inches and a standard deviation $\sigma_S = 0.08$ inches. Find 95% and. 99% confidence limits of actual diameter.

6 Write short notes on any 2 from the following: **2×7=14**

- (a) Ex post facto research.
- (b) Objectives of research
- (c) Research & scientific method
- (d) Experience survey.

7 Briefly elaborate the following: **2×7=14**

- (a) Informal Experimental Designs
 - (b) Completely Randomized Design
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