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The Assam Royal Global University, Guwahati
Royal School of Business
General Elective 4/8
Semester End Examination, June 2023
Course Title: Basic Statistical Methods for Research
Course Code : BSA032G201

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.
The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) **2 x 8**
- a. Define research.
 - b. Write two points of difference between pure and applied research.
 - c. What do you understand by population and sample?
 - d. Define sample size.
 - e. What are the different measures of central tendency used in research?
 - f. What is skewness?
 - g. Give two examples of hypotheses.
 - h. What is sampling error?

Section – B

2. Attempt **any one** of the following: **12 x 1**
- a. Discuss the steps involved in the research process.
 - a. What is research design? Explain the different types of research designs with examples.
3. Attempt **any two** of the following: **7 x 2**
- a. Define sampling. Discuss the different types of sampling techniques used in research.
 - b. What is sample and census survey? Compare and contrast their characteristics.
 - c. Discuss the different methods of collecting primary data along with the relative advantages and disadvantages of each method.
4. Attempt **any two** of the following: **7 x 2**
- a. What are descriptive statistics? Discuss the applications of mean, median and mode in research.
 - b. Which is the best measure of dispersion? Give reasons for your answer.
 - c. When do we use correlation and regression analysis in research? Give examples.
5. Attempt **any two** of the following: **7 x 2**
- a. Define hypothesis testing. Briefly explain the steps involved in hypothesis testing.
 - b. Write the commonly used parametric and non-parametric tests used in research.
 - c. Write the applications of the following tests-
 - i. One sample t-test
 - ii. Independent sample t-test
 - iii. Paired t test