



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Programme 5th Semester Examination, 2020, held in 2021

**STSGDSE01T-STATISTICS (DSE1)**

**RESEARCH METHODOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

**GROUP-A**

**Answer any four questions from the following**

5×4 = 20

1. What is the purpose of a Research Design? 5
2. Explain the difference between Qualitative Research Design and Quantitative Research Design. 5
3. What are the merits and demerits of Questionnaire method of data collection? 5
4. What are the advantages of Sampling over Census? 5
5. What are the points to be considered while editing Primary Data? 5
6. What are the steps to scrutinize Secondary Data? 5

**GROUP-B**

**Answer any two questions from the following**

10×2 = 20

7. (a) Compare Probabilistic Sampling Method and Non Probabilistic Sampling Method. 5
- (b) Explain the difference between Simple Random Sampling with replacement (SRSWR) and Simple Random Sampling without replacement (SRSWOR). 5
8. (a) What is meant by model validation? 5
- (b) What are the steps of model validation? 5

9. (a) What is meant by Sampling Frame? 7  
(b) Write down the steps on Stratified Random Sampling. 3
10. Write short notes on:
- (a) Experimental Research Design 5  
(b) Correlation Research Design. 5

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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