



**2021/TDC/CBCS/ODD/  
STSSEC-501T/121**

**TDC (CBCS) Odd Semester Exam., 2021  
held in March, 2022**

**STATISTICS**

**( 5th Semester )**

Course No. : STSSEC-501T

**( Statistical Techniques for Research Methods )**

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

**SECTION—A**

Answer any *fifteen* of the following questions :

1×15=15

1. What is the meaning of research?
2. Mention one general objective of research.
3. Name two basic approaches to research.
4. Define descriptive research.



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5. What is sampling frame?
6. Mention some sources of secondary data.
7. Name any two probability sampling techniques.
8. What is meant by target population?
9. What is questionnaire?
10. Name any two demerits of interview method of data collection.
11. What is pilot survey?
12. Explain the goal of content analysis.
13. When is median preferred over mean to represent a set of data?
14. Name some diagrams used to present statistical data.
15. What is null hypothesis?

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16. Which measures are used to establish relation between two or more variables?
17. Why is data cleaning necessary?
18. Mention different types of research reports.
19. What should be the contents of comprehensive layout of a research report?
20. How to write footnotes in a report?

SECTION—B

Answer any five of the following questions :  $2 \times 5 = 10$

21. Distinguish between fundamental research and applied research.
22. Explain the difference between research methods and research methodology.
23. Explain coverage error in survey.
24. Distinguish between sampling errors and non-sampling errors.
25. Write the formula for determination of sample size in survey-type research.

( Turn Over )



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26. What are the essential characteristics of a good questionnaire?
27. What is standard error of a statistic? Write its significance.
28. Mention the various steps involved in hypothesis testing.
29. Explain the significance of a research report.
30. Write a short note on 'documentation' in the context of a research report.

SECTION—C

Answer any five of the following questions :  $5 \times 5 = 25$

31. What is research problem? Mention the issues which should receive the attention of the researcher while selecting a research problem.
32. Describe the technique of defining a research problem.
33. Explain the causes of non-sampling errors in surveys.

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34. When does the process of data collection begin in a research and what are the types of data generally collected by the researcher? Explain elaborately.
35. Discuss the method of data collection through questionnaire along with merits and demerits of this method.
36. Explain the criteria for selection of appropriate method of data collection in research.
37. What is the meaning of interpretation in research? Discuss the techniques of interpretation in a study.
38. Explain the precautions to be taken by the researcher for correct interpretation of the research study.
39. Explain the characteristics of a good research report.
40. Describe, in brief, the layout of a research report, covering all relevant points.

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