



2022/TDC/ODD/SEM/STSSEC-501T/121

TDC (CBCS) Odd Semester Exam., 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*

UNIT—I

1. Answer any *three* of the following questions :

1×3=3

- (a) What is action research?
- (b) Which research is concerned with the qualitative phenomenon?
- (c) What is scientific research?
- (d) What is research method?



(2)

2. Answer any *one* of the following questions : 2
- (a) Distinguish between quantitative and qualitative research.
 - (b) State the components of a research problem.
3. Answer any *one* of the following questions : 5
- (a) State the criteria of a good research.
 - (b) Write a short note to explain the techniques involved in defining a research problem.

UNIT—II

4. Answer any *three* of the following questions : 1×3=3
- (a) What is sample survey?
 - (b) Define sampling design.
 - (c) What is sampling frame?
 - (d) What is complete enumeration?
5. Answer any *one* of the following questions : 2
- (a) Write a note on Pilot survey.
 - (b) Distinguish between questionnaire and schedule.

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(3)

6. Answer any *one* of the following questions : 5
- (a) Write a note on sampling error.
 - (b) Explain why sample survey is better than complete enumeration.

UNIT—III

7. Answer any *three* of the following as directed : 1×3=3
- (a) Write some sources of secondary data.
 - (b) Non-response error is a kind of _____ error.
(Fill in the blank)
 - (c) Questionnaire is used by _____.
(Fill in the blank)
 - (d) What is sampling unit?
8. Answer any *one* of the following questions : 2
- (a) What are the important stages of large-scale sample survey?
 - (b) Name the important methods of data collection.

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(4)

9. Answer any *one* of the following questions : 5

- (a) Write a note on primary data.
- (b) Explain a formula to determine sample size.

UNIT—IV

10. Answer any *three* of the following questions : 1×3=3

- (a) Which measure of central tendency is used to find the average speed?
- (b) Write the name of two graphs to represent the statistical data.
- (c) What are the limits of Karl Pearson's correlation coefficient?
- (d) Define skewness.

11. Answer any *one* of the following questions : 2

- (a) Why standard deviation is called the best measure of dispersion?
- (b) If b_{XY} is the regression coefficient of X on Y , then show that $b_{XY} = 0.53$.

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(5)

12. Answer any *one* of the following questions : 5

- (a) If 50 be the average score of the player A with standard 2 and 60 be the average score of player B with standard deviation 4, then explain which player is more consistent.
- (b) What precautions to be taken by a researcher to interpret the research study?

UNIT—V

13. Answer any *three* of the following questions : 1×3=3

- (a) What is content analysis?
- (b) Define scaling technique.
- (c) What is footnote?
- (d) What et al stands to refer any information in report writing?

14. Answer any *one* of the following questions : 2

- (a) What should be the contents of preliminary pages of a research report?
- (b) Define bibliography.

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15. Answer any one of the following questions : 5

(a) Explain the characteristics of a good research report.

(b) Explain two common problems encountered while data cleaning.
