

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

TDC (CBCS) Odd Semester Exam., 2022 The first party later with the first than your or

STATISTICS The series to the series of th

(5th Semester)

distances in the distance with Course No.: STSSEC-501T

(Statistical Techniques for Research Methods)

Full Marks: 50 Pass Marks : 20 Laybrani Permitting

Time: 3 hours

The figures in the margin indicate full marks for the questions Commission of the second and the second seco

UNIT—I

- 1. Answer any three of the following questions: ne var le détaileure le la le le le le le 1×3=3

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

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2. Answer any one of the following questions:

 (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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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 _____

(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:
 - (a) What are the important stags of largescale sample survey?
 - (b) Name the important methods of data collection.

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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=

- (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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- 12. Answer any one of the following questions:
 - (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 interprete 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:

- (a) Explain the characteristics of a good research report.
- (b) Explain two common problems encountered while data cleaning.

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