

(6 pages)

Reg. No. :

Code No. : 8896

Sub. Code : KCSM 31

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2017.

Third Semester

Computer Science

RESEARCH METHODOLOGY

(For those who joined in July 2016 – 2017)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Conceptual Research relies on
(a) Experience (b) Observation
(c) Both (a) and (b) (d) None
2. Preliminary survey is also called _____
(a) Pilot survey
(b) Crucial survey
(c) Operational survey
(d) Experience survey

3. Source list is also called _____
(a) sampling unit (b) sampling frame
(c) sample size (d) sampling type
4. Quota sampling is a type of _____
(a) Probability sampling
(b) Non- Probability sampling
(c) Both (a) and (b)
(d) None
5. What type of data do you need for chi-square test?
(a) Ordinal (b) Categorical
(c) Scales (d) Ratio
6. Analysis of variance is a statistical method of comparing the _____
(a) Standard deviations
(b) variance
(c) Means
(d) Propositions
7. Data that are collected afresh and for the first time is called _____
(a) Primary data (b) Secondary data
(c) Natural data (d) Plain data



8. _____ test uses cartoon format with word inserted on "Balloon" above
(a) T.A.T (b) Rosenzweig test
(c) Rorschach test (d) H.I.T
9. Digital computers handles information as string of _____
(a) Binary numbers
(b) Octal numbers
(c) Decimal numbers
(d) Hexadecimal numbers
10. Second generation computer consist of devices _____
(a) Valve (b) Transistor
(c) IC (d) Capacitors

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain the way of data collection methods used in survey.
Or
(b) What are the features of a good research design?

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12. (a) Explain non-probability sampling design?
Or
(b) Discuss Qualitative and Quantitative measure with example?
13. (a) Discuss the steps involved in short cut method for one way ANOVA?
Or
(b) Give the basic principles of one way ANOVA?
14. (a) What factors are considered during the selection of methods for data collections?
Or
(b) Discuss collection of secondary data.

15. (a) Explain role of computer in research.
Or
(b) Explain problems in marketing management.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) What are the techniques involved in defining a research problem?

Or

- (b) Briefly describe the different steps involved in research process.

17. (a) What do you mean by sample design? What points should be taken into consideration?

Or

- (b) Discuss the following
(i) Stratified Sampling
(ii) Cluster Sampling.

18. (a) Explain Latin-square design with example.

Or

- (b) Discuss test of Goodness of fit with example.

19. (a) What methods are used for data collection in Big business houses?

Or

- (b) Discuss 'Collection of data through Questionnaires' method?

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20. (a) Discuss standard algorithms used in research.

Or

- (b) Discuss the term Computer and Research".
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