

[A-44]

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SARDAR PATEL UNIVERSITY
S.Y.B.A. (FOURTH SEMESTER) (CBCS) EXAMINATION 2015

Friday, 24th April, 2015

2.30 To 4.30 p.m.

UA04EERM04: Research Methodology

Total Marks: 60

Q.1 Multiple choice questions

15marks

1. Research can be classified from three perspectives
 - a. Philosophies, validity and unbiased
 - b. controlled, systematic and empirical
 - c. Rigorous, valid and critical
 - d. application, objectives and inquiry mode used
2. A researcher divides the population of product users into three groups based on degree of use. If the researcher then draws a random sample from each user group independently, she has created a _____ sample.
 - a. random
 - b. Stratified
 - c. Judgment
 - d. quota
3. If a researcher wishing to draw a sample from sequentially numbered invoices uses a random starting point, then draws every 50th invoice, he has thus drawn a _____ sample.
 - a. simple random
 - b. Stratified
 - c. Systematic
 - d. none of the above
4. Research should undertake extensive _____ connected with the problem.
 - a. Books
 - b. Journal
 - c. literature review
 - d. newspaper
5. The concept of 'variables'
 - a. has always been used in psychology.
 - b. is derived from statistics.
 - c. is derived from physics.
 - d. is derived from astronomy.
6. Sources of researchable problems can include: .
 - a. Researchers' own experiences as educators
 - b. Practical issues that require solutions
 - c. Theory and past research
 - d. All of the above
7. Which of these is not a method of data collection?
 - a. Questionnaires
 - b. Interview
 - c. Experiment
 - d. Observations
8. Which of the following would generally require the largest sample size?
 - a. Cluster sampling
 - b. Simple random sampling
 - c. Systematic sampling
 - d. Proportional stratified sampling

13. Mode i.e $Z =$ _____
14. What is the difference between schedule and questionnaires? (2 Marks)

(i) Find out standard deviation and coefficient of standard deviation of the following data.

| | | | | | | | | |
|-----------|----|----|----|----|----|----|----|----|
| Size | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| Frequency | 26 | 29 | 40 | 35 | 26 | 18 | 14 | 12 |

- (6 Marks)

| | | | | | |
|----------------|------|-------|-------|-------|-------|
| Marks | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 |
| No. of student | 22 | 38 | 46 | 35 | 20 |

Q2, Explain (any two) : a. Interview

- Q3. Explain research process.

(15 Marks)

Q3. (i) What is research? Explain the types of research.

(9 Marks)

- (ii) Describe Hypothesis.

(6 Marks)

- Q4. Write short notes on: (any two)

(15 Marks)

- Sampling
- Variables
- Measurement scale