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SARDAR PATEL UNIVERSITY

M.Sc.(H.Sc.)(III Sem.)(FN/FBT/FRM/HD/TC) Examination (CBCS)
(Regular + A.T.R.T.)

Friday, 30/11/12

Time: 2.30 P.M. to 5.30 P.M.

PH03CHSC01: Research Methodology and Scientific Writing

Maximum marks : 70

Note: Figures on the right indicate marks allotted to each question.

Q 1 Multiple Choice Question (Choose the correct answer)

(08)

1. Study of research methodology gives training in :
 - (a) Card indexing material
 - (b) Collection of data
 - (c) Controlled experimentation
 - (d) All the above
2. Research that determines why people behave as they do is:
 - (a) Operational research
 - (b) Motivational research
 - (c) Behavioral research
 - (d) Target research
3. _____ is a method of probability sampling
 - (a) Multistage
 - (b) Purposive
 - (c) Quota
 - (d) Judgment
4. Male/female, rural/urban are factors which can be measured, manipulated or selected by the experimenter to discover whether they modify the relationship of independent variables to an observed phenomena, so they are classified as _____ variables.
 - (a) Dependent
 - (b) Moderator
 - (c) Control
 - (d) Intervening
5. 'Nominal' is a _____ of measurement
 - (a) Interpretation
 - (b) Score
 - (c) Scale
 - (d) Ratio
6. A disciplined study of experience
 - (a) Experimental method
 - (b) Philosophical method
 - (c) Clinical research
 - (d) Historical research
7. A/An _____ is the supposition that is taken for granted to better establish the scope, frame of reference and conditions under which a study is to be conducted.
 - (a) Validity
 - (b) Theorem
 - (c) Postulate
 - (d) Assumption

P.T.O.

8. Throwing a dice is a
- Method to collect data
 - Step in research design
 - Method of randomization
 - None of the above

Q 2 Explain very briefly any SEVEN of the following: (14)

- Hypothesis
- Research design
- Operational definition
- Control variable
- Research paper and abstract
- Longitudinal research
- Research methodology
- Historical research
- Random tables

Q 3(a) Explain in detail, functions of research. (6)

(b) List the steps involved in a research process. (6)

OR

(b) What are the sources from which idea about a research problem can be obtained? (6)

Q 4(a) Explain the functions of hypothesis. (6)

(b) What is the need of defining a research problem? (6)

OR

(b) Differentiate between scientific and philosophical methods of research. (6)

Q 5 Write short notes on any THREE of the following: (12)

- Factors to be considered while writing a research abstract
- Rating scale
- Case study method of research
- Characteristics of a good sample
- Criteria for selection of a research problem

Q 6 Prepare a research proposal on any ONE of the following areas: (12)

- Nutrition and health problems in old age
- GM foods and their potential risks
- Adjustment problems after marriage
- Ergonomically designed furniture
- Traditional embroidery for contemporary wear