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(A-95) SARDAR PATEL UNIVERSITY

M.Sc. (Renewable Energy) Examination, Fourth Semester

Day and Date: Sunday, 18.04.2015

Session: Evening Time: 2:30-5:30

Subject/ Course Code: 1404CSYF01 / Paper No. 1

Subject/ Course Title: Research Methodology

Total Marks: 70

- Note: 1. All the questions are compulsory
2. Figures on the right bracket indicated marks

Q-1 Choose the correct answer

(8)

- a) is a way of solving the research problem systematically
- Research methodology
 - Research ethics
 - Literature review
 - Research design
- b) are two approaches for research
- Sampling and analysis
 - Formulation and literature survey
 - Hypothesis and ethics
 - Quantitative and qualitative approach
- c) Doing what is normally and legally right in conducting of the research is called as.....
- Plagiarism
 - Ethics
 - Technical writing
 - Privacy
- d. An evaluative report of studies found in the literature related to your selected area is called as
- Literature review
 - Acknowledgement
 - References
 - Research problem
- e. is a measure reflecting the average number of citations to articles published in science and social science journals
- Rating
 - Ranking
 - Impact factor
 - h index
- f. A concept which can take on different quantitative values is called
- Quantity
 - Variable
 - Value

iv. Parameter

g. method encourages a rigorous, impersonal mode of procedure dictated by the demands of logic and objective procedure

- i. Empirical
- ii. Statistical
- iii. Scientific
- iv. Analytical

h. in general, refers to some difficulty which a researcher experiences in the context of either a theoretical or practical situation and wants to obtain a solution for the same

- i. Research problem
- ii. Research paper
- iii. Experimentation
- iv. Analysis

Q-2 Answer in brief any seven questions

(14)

- i. What are the objectives of research?
- ii. What is a review of the literature?
- iii. What is motivation in research?
- iv. Why is the literature search and review important?
- v. Explain in brief what are different types of research?
- vi. Explain in brief writing acknowledgements.
- vii. What is hypothesis of study?
- viii. Explain in brief need for research design.
- ix. What is self-plagiarism?

Q-3 A. Explain in brief research methods versus methodology
B. Different research designs. Explain any one in details

(6)

OR

(6)

What is a research problem?

(6)

(6)

Q-4 A. What is research publication/presentation code of ethics
B. Explain h Index in detail

(6)

OR

(6)

Explain variables of the study

Q-5 A. What are the guidelines for writing research paper for publication
B. Explain The Seven Steps of the Research Process

(6)

OR

(6)

Describe the techniques of defining a research problem

(6)

Q-6 A. Explain the nature of a literature review
B. What are the different types of research? Explain any two.

(6)

(6)

OR

Give the Criteria of Good Research

(6)