| [126] SEAT | No. | No. of Printed Pages: 2 |
|---|---|--|
| - American | | Patel University |
| M.Sc. Renewable Energ | y | Semester: Fourth |
| Course Code: PS04 | CSYT01 | Title: Research Methodology |
| Day and Date: Monday, | 18.03.2019 | Time: 02:00 PM to 05:00 PM |
| • | | Total Marks: 70 |
| Note: 1. All the question | ıs are compulsory | |
| | right bracket indicat | red marks |
| Q-1: Choose the correct A | Answer | (9) |
| i. Quantitative research: | is based on the measu | rement of |
| a) Quantity or amo | ount | c) Formulation of theory |
| b) Quality or kind | • | d) Experience of observation |
| | | on has an equal chance of inclusion in the sample and each |
| one has probability of a) Systematic sam | | c) Deliberate sampling |
| b) Quota sampling | | d) Simple random sampling |
| o) Quota samping | | d) Simple random sampling |
| iii. Independent variables variable are termed as | | to the purpose of the study, but may affect the dependen |
| a) Fixed variable | *************************************** | |
| b) Basic units | | c) Extraneous variable d) Values |
| b) Dasic anta | | d) values |
| iv. Mean is also known as | s | |
| a) Unit | | c) Average |
| b) Summation | | d) None of the above |
| v. Which of the followin | g is not covered under | r Intellectual Property Rights? |
| a) Copyrights | | c) Patents |
| b) Trade Marks | | d) Thesaurus |
| - | uses on sociology of | meaning through close field observation of socio-cultura |
| phenomenon | | |
| a) Case study | | c) Grounded study |
| b) Ehnography | _ | d) Phenomenology |
| | | erial, either word from word or as a paraphrase, from |
| anything ranging from | i books, to artistic woi | |
| a) Plagiarism | • | c) Editing |
| b) Drafting | | d) None of the above |
| | | measure both the productivity and citation impact of th |
| publications of a scien | dist or scholar is term | |
| a) h- index | | c) Impact factor |
| b) Citation | | d) Peer Review |
| ix. The essential qualitie | s of a researcher are | |
| a) Spirit of free er | | c) Reliance on observation and evidence |
| b) Systematization | n or theorizing of kno | owledged) All the above |
| | | (0) |

| Q-2 | Write short note on following (Any 7) | (21) |
|-----|--|-------------------|
| | i. Define dependant, independent variables and extraneous variables | |
| | ii. Define plagiarism and describe in brief. | |
| | iii. Define and brief about scientific research | |
| | iv. Explain in brief about the main types of qualitative research | |
| | v. Explain the different types of hypothesis | |
| | vi. What are the objectives of research | |
| | vii. What do you mean by the research design | |
| | viii. What is impact factor? Brief how it is calculated and used. | |
| | ix. What is industrial design? How industrial designs are protected? | |
| | x. Write short notes on criteria of good research | |
| Q-3 | (A) Explain the problems encountered by researchers in India | (5) |
| | (B) Explain the technique involved in defining a problem | |
| | OR | / // \ |
| | Draw flow chart of research process and describe each steps of research process in brief | (5) |
| Q-4 | 1 | (5) |
| | hypothesis? | (5) |
| | (B) Discuss types of quantitative methods | (5) |
| | OR | |
| | List important concept relating to research design and explain any three concepts | |
| Q-5 | (A) What is documentation? Why is documentation important? | (5) |
| | (B) What is h-indix. Explain in details. | (5) |
| | OR | |
| | Write the rules for making good oral presentation | |
| Q-6 | (A) Discuss the ethical issues of plagiarism | (5) |
| | (B) What are the different Intellectual Property rights? Explain in brief. | (5) |
| | OR | |
| | What is plagiarism? Explain. | |

