

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc., Winter 2017-18 Examination

Semester: 3
Subject Code: 11200201
Subject Name: Research Methodology & Scientific Writing

Date: 23-12-2017
Time: 10:30AM to 01:00PM
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Answer the following (Each of 04 marks) (08)**
 (a) Discuss different types of research briefly.
 (b) Discuss the applications of research.
- Q.1. B) Answer the following questions (Any two) (04)**
 (a) **Answer the following** (Each of 02 marks)
 1. What is the difference between basic and applied research?
 2. What is the difference between correlative and analytical research?
 (b) Short note on likart scale. (04)
 (c) Short note on sources of literature. (04)
- Q.2. A) Answer the following questions. (04)**
 (a) **Answer the following** (Each of 02 marks)
 1. How to review a selected literature?
 2. What is the difference between research report and research proposal?
 (b) Short note on formulation of research problem. (04)
- Q.2. B) Answer the following questions (Any two) (03)**
 (a) **Answer the following** (Each of 01 marks)
 1. What is bibliography?
 2. What is referencing?
 3. What is "Operational definition"?
 (b) Why should anyone review the literature before starting the research? (03)
 (c) State different mode/method of data collection. (03)
- Q.3. A) Answer the following (Each of 04 marks) (08)**
 (a) Classify the research on the basis of objectives of the study.
 (b) Discuss the sources of research problem.
- Q.3. B) Answer the following questions (Any two) (04)**
 (a) **Answer the following** (Each of 02 marks)
 1. Differentiate between validity and reliability of instruments.
 2. Differentiate between interviewing and questioner type of data collection.
 (b) Short note on Function and theory of research design. (04)
 (c) What is the Importance of formulating a research problem? (04)
- Q.4. A) Answer the following questions. (04)**
 (a) **Answer the following** (Each of 02 marks)
 1. Explain qualitative research.
 2. Note down the problems in writing a research report.
 (b) What is research objective and how to write it. (04)
- Q.4. B) Answer the following questions (Any two) (03)**
 (a) **Answer the following** (Each of 01 marks)
 1. Define research.
 2. What is study population?
 2. How many drafts are to be needed for the report writing?
 (b) Write down Objectives of the research. (03)
 (c) How to formulate your research objectives. Discuss with example. (03)