

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc., Winter 2018-19 Examination

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

Date: 30/10/2018
Time: 10: 30 am to 1:00 pm
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) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) Explain in brief about any two research types.
(b) Write a brief note on features of good research design.
- Q.1. B) Answer the following questions (Any two) (04)**
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
1. Define research
2. Define hypothesis
(b) Difference between formulative and descriptive research. (04)
(c) Note on developing a theoretical and conceptual framework. (04)
- Q.2. A) Answer the following questions. (04)**
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
1. What are primary literature sources?
2. Define research design
(b) Write a note on steps involved in research process. (04)
- Q.2. B) Answer the following questions (Any two) (03)**
(a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
1. _____ is a predicative statement that relates an independent variable to dependent variable.
2. Which type of research is based on the measurement of quantity or amount?
3. Conference proceedings are which type of literature source?
(b) Explain, how to formulate research problem? (03)
(c) What is the importance of literature survey? (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) Write in brief about how to write a research proposal.
(b) Write a general procedure in attitude scaling.
- Q.3. B) Answer the following questions (Any two) (04)**
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
1. Define manipulation.
2. Define experimental design.
(b) Classification of scaling techniques. (04)
(c) Write down the criterias for good research report writing. (04)
- Q.4. A) Answer the following questions. (04)**
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
1. What is concept of attitude?
2. What is bibliography?
(b) Write a brief note on methods for collecting primary data. (04)
- Q.4. B) Answer the following questions (Any two) (03)**
(a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
1. What type of research has aims to find solution for an immediate problem facing a society or an industry?
2. Information extracted from a printed source is recorded on the what?
3. In which type of research interview schedules are include?
(b) What is the role of control group in research? (03)
(c) Which factors to be consider before data collection. (03)