



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – M.Sc.(MB)-2022

Course Name – Research Methodology

Course Code - MMBC104

(Semester I)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Inferring about the whole population on the basis of the observations made on a small part is measure as
- | | |
|------------------------|------------------------|
| a) deductive inference | b) Inductive inference |
| c) Objective inference | d) Pseudo-inference |
- (ii) Select which of the following statements about plagiarism is most accurate
- | | |
|--|---|
| a) It is so easy to "copy and paste" from the internet that everyone does it nowadays. If a proper reference is given, where is the harm in that? | b) How can we say for sure where our own ideas come from exactly? If we tried to give a reference for everything we could never hope to succeed |
| c) Any suggestion that we have written what another actually wrote is morally wrong. The whole point of a literature review is to show what we have read and what we thought about it. | d) Plagiarism is such an awful crime that those found guilty should be obliged to wear a scarlet "P" on their clothing. |
- (iii) If the researcher is concerned with finding out who, what, when or how much, then the study is classified as _____
- | | |
|-------------------------|-------------------------|
| a) Descriptive research | b) Exploratory research |
| c) Empirical research | d) Causal research |
- (iv) Report what type of chart design is useful for showing trends or changes over time?
- | | |
|---------------|-----------------|
| a) Pie Chart | b) Column Chart |
| c) Line Chart | d) Dot Graph |
- (v) Why it is important to review the existing literature?
- | | |
|--|--|
| a) To make sure you have a long list of references | b) Because without it, you could never reach the required word-count |
| c) To find out what is already known about | d) To help in your general studying |

- your area of interest
- (vi) Select chi-square test was developed by
- a) W. S. Gosset
b) Karl Pearson
c) A. R. Fisher
d) Pascal
- (vii) Identify the advantages of random sampling.
- a) Reasonably accurate
b) Economical method of data collection
c) Free from personal biases
d) All of the above
- (viii) Tell which of the following is priorly required to pursue a research.
- a) Developing a research design
b) Formulating a research question
c) Deciding about the data analysis procedure
d) Formulating a research hypothesis
- (ix) If an investigator wants to select a sample on the basis of diverse characteristics of the population, which method he should use?
- a) Convenience sampling method
b) Quota sampling method
c) Stratified sampling method
d) Both b and c
- (x) Select which of the option is followed by "Formulation of hypothesis".
- a) Selection of Research Tools
b) Analysis of Data
c) Statement of Objectives
d) Collection of Data
- (xi) Select the conditions in which Type-I error occurs?
- a) The null hypotheses get accepted even if it is false
b) The null hypotheses get rejected even if it is true
c) Both the null hypotheses as well as alternative hypotheses are rejected
d) None of the above
- (xii) Select who can successfully conduct research
- a) Someone who is a hard worker
b) Possesses post-graduation degree
c) Has studied research methodology
d) Possesses thinking and reasoning ability
- (xiii) The existing company information is an example of which data?
- a) Primary
b) Secondary
c) Both a and b
d) None of the above
- (xiv) Analytic research can be explain as
- a) Analyze the facts or information already available
b) Discover ways of finding solution of an immediate problem
c) Is useful for formulating hypothesis
d) Gathers knowledge skills
- (xv) After a biohazard spill is covered with paper towels and disinfectant solution. Predict how many minutes it must be keep untouched?
- a) 5
b) 60
c) 30
d) 20

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Differentiate between Census survey and Sample Survey. (3)
3. Define data collection. Explain with a suitable example. (3)
4. What are sampling methods and how do you choose the best one. (3)
5. Interviews are time-consuming and expensive because they only deal with a subject at a time. Explain why researchers still employ them. (3)
6. Suppose you read a website that says, an international health organization found that 15% of children in a certain country have pneumonia. Justify the data source in this case? (3)

OR

What are the objectives of case study? Justify the approach of case study in biological research. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

- 7. What do you mean by double blind research ? Justify its importance with suitable example (5)
- 8. What should we say to people when we try to recruit them for our study? Can we recruit people for study who are legally under the care of a parent or guardian? Explain. (5)
- 9. Discuss the key steps in the data collection process. (5)
- 10. How is qualitative data interpreted and describe with examples. (5)
- 11. Explain about the steps involved in research design. (5)
- 12. Explain the types and general rules for graphical representation of data. (5)

OR

Define research method. Write different types of research method with examples (5)
