## BACHELOR OF MEDICAL LABORATORY TECHNOLOGY
## FIFTH SEMESTER
## RESEARCH METHODOLOGY
## BMLT – 502

**SET A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

( **Objective** )

Marks: 20

*Choose the correct answer from the following:*     $1 \times 20 = 20$

1. What is the name of the conceptual framework in which the research is carried out?
   a. Research hypothesis
   b. Synopsis of Research
   c. Research Design
   d. None of the above

2. Which of the following does not correspond to characteristics of research?
   a. Research is not passive
   b. Research is systematic
   c. Research is not a problem oriented
   d. Research is not a process

3. The main aim of the scientific method in the research field is to _____
   a. Improve data interpretation
   b. Confirm triangulation
   c. Introduce new variables
   d. Eliminate Spurious relations

4. A good research design always
   a. minimizes bias
   b. maximizes the reliability of the analysis
   c. both a and b
   d. neither a nor b

5. _____ are the moral principles that govern how researchers should carry out their works.
   a. Research processes
   b. Research methods
   c. Research ethics
   d. None of the above

6. The method of collecting primary data by sending a list of questions to the informants through an enumerator for helping the informants to answer the questions, is called
   a. questionnaire method
   b. schedule method
   c. interview method
   d. survey method

7. What type of variable used to know the blood type of the patients in a hospital?
   a. qualitative variable
   b. quantitative variable
   c. both (a) and (b)
   d. None of the above

8. A research problem must have _____ to find the best solution to solve the problem.
   a. methods
   b. evidence or data
   c. formula
   d. None of the above

9. Which of the following tools is used to gather information from the list of the given questions based on the purpose
   a. Observation
   b. Questionnaire
   c. Interview
   d. None of the above

10. The method of collecting data from the sample instead of the population is called __
    a. sampling method
    b. census method
    c. survey method
    d. None of the above

11. Which of the following methods is used to analyse the data in quantitative research?
    a. Experimental method
    b. Survey method
    c. Statistical method
    d. All of the above

12. Which of the following is a commonly used data collection method in qualitative research?
    a. Surveys
    b. Experiments
    c. Observations
    d. Correlation studies

13. What is the most common method of data collection in quantitative research?
    a. Interviews
    b. Surveys / questionnaires
    c. Observations
    d. None of the above

14. Which of the following is a probability sampling?
    a. Judgement sampling
    b. Simple random sampling
    c. Quota sampling
    d. Convenience sampling

15. Sample is regarded as a subset of
    a. Data
    b. Distribution
    c. Set
    d. Population

16. When the sample size increases, then_____
    a. It increases the sampling error
    b. It reduces the sampling error
    c. It has no effect on the sampling error
    d. None of the above

17. Which of the following is not a characteristic of a good sample?
    a. Non representative
    b. Accurate and precise
    c. Sampling error
    d. Free from bias

18. Which one is the true example of primary data from the following options?
    a. Journal
    b. Census report
    c. Books
    d. News paper

19. Which one is the true example of primary data from a researcher wants to conduct a large scale survey regarding the effectiveness of mid day meal scheme. For this purpose which tool will be suitable?
    a. Observation schedule
    b. Sociometric technique
    c. Questionnaire
    d. Interview

20. What is the primary goal of quantitative research?

a. To explore and describe a phenomenon in-depth

b. To identify patterns and relationships between variables

c. To generate new theories and hypotheses

d. To understand the subjective experiences of participants

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# ( Descriptive )

Time : 2 hrs. 30 min.                                                      Marks : 50

## [ Answer question no.1 & any four (4) from the rest ]

1. What do you mean by research? Distinguish between Research          5+5=10
   methods and Research methodology

2. How do you define a research problem? Give examples to              5+5=10
   illustrate your answer.Explain the various Ethical views in
   Research.

3. Explain the importance of Statistics in the research of Biological      10
   science.

4. What are research questions? Write its importance to formulate      5+5=10
   the research problem. Write the characteristics of a good research
   tool.

5. Distinguish between Qualitative research and Quantitative           5+5=10
   research.Explain the various measurement scales used in
   Research.

6. Discuss the statistical methods in determination of sample size.    5+5=10
   Write the characteristics of a good sample.

7. Explain with examples the importance of sampling in research          10

8. Define the terms sample, sampling, sampling frame, sampling           10
   error and non-sampling error.

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