



# BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**

**Programme – Bachelor of Science in Medical Radiology & Imaging Technology**

**Course Name – Research Methodology**

**Course Code - BMRIT603**

**( Semester VI )**

**Time allotted : 1 Hrs.15 Min.**

**Full Marks : 60**

[The figure in the margin indicates full marks.]

## Group-A

(Multiple Choice Type Question)

1 x 60=60

*Choose the correct alternative from the following :*

- (1) What is the major attribute of Correlation Analysis?
  - a) Association among variables
  - b) Difference among variables
  - c) Regression among variables
  - d) Variations among variables
- (2) What is the name of the conceptual framework in which the research is carried out?
  - a) Research hypothesis
  - b) Synopsis of Research
  - c) Research paradigm
  - d) Research design
- (3) What is the main role of research in education?
  - a) To upsurge one's social status.
  - b) To increase one's job prospects.
  - c) To augment one's personal growth.
  - d) To help an applicant in becoming a renowned educationalist.
- (4) How is random sampling helpful?
  - a) Reasonably accurate
  - b) An economical method of data collection
  - c) Free from personal biases
  - d) All of the above
- (5) A research intends to explore the result of possible factors for the organization of effective mid-day meal interventions. Which research method will be most appropriate for this study?
  - a) Descriptive survey method
  - b) Historical method
  - c) Ex-post facto method
  - d) Experimental method
- (6) In order to pursue the research, which of the following is priorly required?
  - a) Developing a research design
  - b) Formulating a research question
  - c) Deciding about the data analysis procedure
  - d) Formulating a research hypothesis
- (7) The format of thesis writing is the same as in
  - a) Writing of Seminar representation
  - b) Preparation of research paper/article
  - c) A research dissertation
  - d) Presenting a workshop/conference paper
- (8) Which one among the following statements is false in the context of participatory research?
  - a) It recognizes knowledge as power
  - b) It is a collective process of inquiry

- c) It emphasizes people as experts
- d) Its sole purpose is the production of knowledge
- (9) Which one among the following statement is true in the context of the testing of hypotheses?
- a) It is only the alternative hypotheses that can be tested.
- b) It is only the null hypotheses that can be tested.
- c) Both the alternative and the null hypotheses can be tested.
- d) Both the alternative and the null hypotheses cannot be tested.
- (10) What are 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
- (11) What do you understand by the term "Anusandhan"?
- a) Goal-oriented
- b) Following an aim
- c) Attaining an aim
- d) Praying to achieve an aim
- (12) 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
- (13) 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
- (14) A researcher is interested in studying the prospects of a particular political party in an urban area. So, what tool should he prefer for the study?
- a) Rating Scale
- b) Interview
- c) Questionnaire
- d) Schedule
- (15) The conclusions/findings of which type of research cannot be generalized to other situations?
- a) Casual Comparative Research
- b) Historical Research
- c) Descriptive Research
- d) Experimental Research
- (16) How to judge the depth of any research?
- a) By research title
- b) By research duration
- c) By research objectives
- d) By total expenditure on research
- (17) 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
- (18) Which of the following is not the method of Research?
- a) Survey
- b) Historical
- c) Observation
- d) Philosophical
- (19) A research problem is feasible only when
- a) It has utility and relevance
- b) It is new and adds something to knowledge
- c) It is researchable
- d) All of the above
- (20) Circle graphs are used to show
- a) How is one part related to other parts?
- b) How various sections share in the whole?
- c) How is one whole related to another whole?
- d) How are various parts related to the whole?
- (21) Which one is called non-probability sampling?
- a) Quota sampling
- b) Cluster sampling
- c) Systematic sampling
- d) Stratified random sampling
- (22) On what basis did Jean Piaget give his theory of cognitive development of humans?
- a) Evaluation Research
- b) Fundamental Research

- c) Applied Research
- d) Action Research
- (23) What are the core elements of a dissertation?
- a) Introduction; Data Collection; Data Analysis; Conclusions and Recommendations
- b) Executive Summary; Literature Review; Data Gathered; Conclusions; Bibliography
- c) Research Plan; Research Data; Analysis; References
- d) Introduction; Literature Review; Research Methodology; Results; Discussions and Conclusions
- (24) "Sampling Cases" can be defined as
- a) Sampling using a sampling frame
- b) Identifying people who are suitable for research
- c) Literally the researcher's brief case
- d) A sampling of people, newspapers, television programs etc.
- (25) Which technique is generally followed when the population is finite?
- a) Systematic Sampling Technique
- b) Purposive Sampling Technique
- c) Area Sampling Technique
- d) None of the above
- (26) Research problem is selected from the standpoint of
- a) Social relevance
- b) Financial support
- c) Researcher's interest
- d) Availability of relevant literature
- (27) The F-test:
- a) Is essentially a two-tailed test.
- b) Is essentially a one-tailed test.
- c) Can be one-tailed as well as two-tailed depending on the hypotheses.
- d) Can never be one tailed test.
- (28) Which one among the following is the most comprehensive source of population data?
- a) Census
- b) National Sample Surveys
- c) Demographic Health Surveys
- d) National Family Health Surveys
- (29) The process not needed in experimental research is
- a) Controlling
- b) Observation
- c) Reference collection
- d) Manipulation and replication
- (30) What are those conditions where a research problem is not viable?
- a) It is new and adds something to knowledge
- b) It can be researched
- c) It has utility and relevance
- d) It contains dependent and independent variables
- (31) Action-research can be understood as \_\_\_\_\_
- a) A longitudinal research
- b) An applied research
- c) A kind of research being carried out to solve a specific problem
- d) All of the above
- (32) What is the use of Factorial Analysis?
- a) For setting the hypotheses
- b) To understand the difference between two variables
- c) To understand the relationship between two variables
- d) To understand the difference between various variables
- (33) Which one among the following variables cannot be expressed in quantitative terms?
- a) Numerical Aptitude
- b) Marital Status
- c) Socio-economic Status
- d) Professional Attitude
- (34) The "Sociogram" technique is used to study \_\_\_\_\_
- a) Vocational Interest
- b) Human Relations
- c) Professional Competence
- d) Achievement Motivation
- (35) Which one among the following phrases does not correspond to the meaning of research as a process?
- a) Problem Solving
- b) Trial and Error

- c) Objective Observation  
d) Systematic Activity
- (36) Which of these is not a method of data collection  
a) Questionnaires  
b) Interviews  
c) Experiment  
d) Observation
- (37) The purpose of the research proposal is  
a) To discuss the research efforts of others who have worked on related management question  
b) To generate monetary sources for the organization  
c) To present management question to be researched and its importance  
d) None of these
- (38) A proposal is also known as a  
a) Work plan  
b) Prospectus  
c) Draft plan  
d) All of these
- (39) Secondary data can almost always be obtained more quickly and at a lower cost than  
a) Research  
b) Primary  
c) Collective  
d) Tertiary
- (40) Which of the following describe the middle part of a group of numbers?  
a) The Measure of Variability  
b) The Measure of Central Tendency  
c) The Measure of Association  
d) The Measure of Shape
- (41) The Measure of Shape  
a) Continuous Variable  
b) Qualitative Variable  
c) Collective variable  
d) Discrete variable
- (42) The literature review that the researcher writes becomes the  
a) Conceptual framework for the research project  
b) Theoretical framework for the research project  
c) Methodological framework for the research project  
d) Analytical framework for the research project
- (43) The annual number of female death per 1 lakh live birth for any cause related to or aggravated by pregnancy or its management is known as  
a) Maternal mortality rate  
b) Crude birth rate  
c) Infant mortality rate  
d) Life expectancy
- (44) A survey research methodology is particularly useful in facilitating the study of  
a) Continuous Variable  
b) Very large populations and geographically scattered populations  
c) Women Work force  
d) Male Work force
- (45) Social research is  
a) About statistical analysis  
b) Done by sociologists  
c) About investigating some aspect of the social world  
d) Always complex and difficult to understand
- (46) Literature in the context of a research project is  
a) To discuss the research efforts of others who have worked on related management question  
b) Theoretical framework for the research project  
c) Published accounts of research that has been carried out and completed  
d) All of these
- (47) The computation of HDI was made on the following dimensions  
a) Life expectancy at birth  
b) Expected years of schooling  
c) Decent standard of living  
d) All of these
- (48) Which Development Goal emphasized on Improved Nutrition , Healthy Life for all and availability and Sustainable Management of Water and Sanitation as its critical components?

