

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science in Medical Lab Technology Course Name – Research Methodology and Biostatistics Course Code - BMLT604 (Semester VI)

Time allotted: 1 Hrs.15 Min.

[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) The purpose of the research proposal is a) To discuss the research efforts of others who have b) To generate monetary sources for the organization worked on related management question c) To present management question to be researched d) None of these and its importance (2) Secondary data can almost always be obtained more quickly and at a lower cost than a) Research b) Primary c) Collective d) Tertiary (3) 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 (4) Arithmetic mean of two positive numbers X and Y is a) a/b+2b) ab/2c) (a+b)/2d) a+2/b+1(5) The literature review that the researcher writes becomes the b) Theoretical framework for the research project a) Conceptual framework for the research project c) Methodological framework for the research projec d) Analytical framework for the research project t (6) Mortality means a) Birth b) High standard of life c) Death d) Expectations (7) Data is

roject

d) All of these

a) Always difficult to source for a research project

c) Always complex when used in a research project(

b) Information or evidence gathered for a research p

(8) Business research is	
a) About investigating some aspect of business	b) Information or evidence gathered for a research project
c) Methodological framework for the research projec t	d) Analytical framework for the research project
(9) Birth rate is high as a consequence of	
a) Wide spread illiteracy	b) Early marriage
c) Absence of knowledge of family planning	d) All of these
(10) Mention the year when the Universal Declaration of I the Right to an adequate standard of living	Human Rights mentioned Health as a part of
a) 1989	b) 1948
c) 1987	d) 1988
(11) The collection of Resources like Knowledge , Talent wn as	, Skill ,Ability, Judgement , Wisdom is kno
a) Sunk Capital	b) High standard of life
c) Human Capital	d) Working Capital
(12) The branch of biology and medicine dealing with the fic secretions known as hormones.	endocrine system, its diseases, and its speci
a) Endocrinology	b) Neurology
c) Nephrology	d) Entomology
(13) The process whereby a person is made immune or res he administration of a vaccine	sistant to an infectious disease, typically by t
a) Hospitalization	b) Immunization
c) Nutrition	d) None of these
(14) The variable "Taste" can be regarded as being, in gen	eral
a) qualitative and nominal level	b) discrete variable
c) Collective	d) Tertiary
(15) Type of central tendency measures which divides data	a set intohundred equal parts is
a) Median	b) Percentile
c) Quartile	d) Decile
(16) For individual observations, reciprocal of arithmetic 1	mean is called
a) harmonic mean	b) arithmetic mean
c) geometric mean	d) Mode
(17) Arithmetic mean is 12 and number of observations ar	e 20 then sum of all values is
a) 234	b) 240
c) 256	d) 280
(18) In two units of company, employees in unit one are 6. in unit two are 700 and monthly salary is \$2500 then	
a) 2540	b) 2620
c) 2670	d) 2900
(19) Which of the following is not a measure of dispersion	?
a) Skewness	b) Variance
c) Range	d) Quartile Deviation
(20) The population of a study is	
a) All the researchers involved in the research	b) The researcher and research supervisor
c) Every person or entity that might be included/that might participate in the research	d) All of the people involved in carrying out the research

20, 5, 150, 55, 75, 65, 45, 35, 25, 52 then outliers in c	
a) 50, 150	b) 5150
c) 25,75	d) 150
(22) If total sum of square is 20 and sample variance is 5 t	hen total number of observations are
a) 23	b) 4
c) 34	d) 45
(23) If all the scores on examination cluster around the me	ean, the dispersion is said to be:
a) higher	b) medium
c) smaller	d) larger
(24) At a manufacturing plant, unit of quantity manufacturing 30, 310, 260 Find the Range	ared in 8 days are 250, 320, 240, 210, 260, 3
a) 125	b) 120
c) 134	d) 145
(25) The correlation coefficient is used to determine	
a) A specific value of the y-variable given a specific value of the x-variable	b) A specific value of the x-variable given a specific value of the y-variable
c) The strength of the relationship between the x and y variables	d) all of these
(26) Correlation between rainfall and crop production	
a) Negative	b) Positive upto a certain point and then negative
c) Zero	d) None of these
(27) As the value of x increases, if y also increases, then c	oefficient of correlation will be
a) Negative	b) Positive
c) Zero	d) None of these
(28) Correlation refers to	
a) the association between two variables	b) to determine if a change in x causes a change in y
c) to determine if a change in x causes a change in y	d) to determine if any x-values are outliers
(29) A process by which we estimate the value of dependent pendent variables is called:	ent variable on the basis of one or more inde
a) Continuous Variable	b) Regression
c) Correlation	d) Discrete variable
(30) The table that shows the rate of deaths occurring in a nterval, or survival rates from birth to death.	defined population during a selected time i
a) Mortality Table	b) Life Table
c) Acturial Table	d) All of these
(31) The basic rule of probability sampling is	
a) That each member of the population has an equal probability of being selected for inclusion in the g alaxy	b) That each member of the population has an equal probability of being selected for inclusion in the sample
c) That each member of the population has an equal probability of being selected for inclusion in the p yramid	d) That each member of the population has an equal probability of being selected for inclusion in the universe
(32) - In the demographic study of population, a country value llowing phase:	with low birth rate and low death rate is in fo
a) First	b) Second
c) Third	d) Fourth
(33) It can be defined as an intensive study about a person	n, a group of people or a unit, which is aime

a) cohort study	b) case study
c) Correlation studies	d) Cross-sectional studies
(34) Purposive sampling, quota sampling, convenience samples of	mpling and snowball sampling are all exam
a) Probability sampling	b) Non probability sampling
c) Cluster sampling	d) Systematic sampling
(35) When using data from a secondary source the first this	ing to do is
a) To write all of the data out on a big sheet of pape	b) To establish where the data came from and wheth er or not this is a reputable source
c) To establish that the data has the right appeal for t he research project	d) None of these
(36) Observation is	
a) The role the research supervisor takes in the research process	b) A key data gathering method in the social science s
c) The role the researcher takes in the research proce ss	d) Near observation and distant observation
(37) A group of people assembled to participate in a discu or to provide feedback on a political campaign, televi	
a) Focus group	b) case study
c) Correlation studies	d) cross-sectional studies
(38) What is the definition of sex ratio?	
a) Number of deaths per 1,000 live births of children	b) Number of women per 1000 men
c) Number of women per 100000 men	d) Number of men per 1000 women
(39) Gives a net biological status of the population.	
a) Heath indicator.	b) Vital index
c) Mortality rate.	d) Fertility rate
(40) The main sources of information concerning fertility	are population census and
a) Demographic surveys	b) Birth registration system.
c) Stratified sampling.	d) Questionnaire
(41) Rate is special type of ratio in which the denominator e numerator represents	represents the total number of cases and th
a) Certain fraction of this number.	b) Multiplication of this number.
c) Summation of this number.	d) Percentage of this number.
(42) Questionnaires are used primarily to gather	
a) Quantitative data	b) Qualitative data
c) Quantitative and qualitative data	d) None of these
(43) The key issues in the design of a questionnaire are	
a) The methodological framework	b) The content of the questions, the presentation of t he questions, the order of the questions, and the le ngth of the questionnaire
c) The methodology used in the research, the popula tion of the research, whether or not a sample was used, and if one was, the sample method used	d) The attitude and interest of the participants in the research
(44) It refers to the framework of market research method cher. The design that is chosen by the researchers allowed ble for the study and to set up their studies successful	ow them to utilise the methods that are suita

d to generalize over several units'

a) Research Flowchart

b) Regression Diagram

(45) Data management is	
a) A fundamental responsibility of the researcher	b) A fundamental responsibility of research participa nts
c) A fundamental responsibility of the research supe rvisor	d) A fundamental responsibility of the organisation where the research is carried out
(46) The first stage in the four stages of data analysis is th	e stage of
a) Describing data	b) Gathering data
c) Collecting data	d) Managing data
(47) The researcher uses the coding key to	
a) Understand the data	b) Understand the theory
c) Understand the research methodology	d) Understand the data gathering methods
(48) These are defined broadly as conditions that last 1 ye ntion or limit activities of daily living or both.	ar or more and require ongoing medical atte
a) Chronic diseases	b) deficiency diseases,
c) Infectious disease	d) hereditary diseases
(49) When the genetic disorder is inherited from one or bo	oth parents, it is also
a) Chronic diseases	b) deficiency diseases,
c) Infectious disease	d) hereditary diseases
(50) Line charts, bar charts and scattergrams are all examp	bles of
a) Graphs used in meteorology	b) Graphs used in oceanography
c) Graphs used in social science research	d) Graphs used in Google map research
(51) In probability theories, events which can never occur	together are classified as
a) mutually exhaustive events	b) mutual events
c) exclusive events	d) mutually exclusive events
(52) These are research studies performed in people that a r behavioral intervention. They are the primary way t ike a new drug or diet or medical device (for example le.	hat researchers find out if a new treatment, l
a) Clinical Trials	b) Cohort study
c) Case Trials	d) Cross-sectional studies
(53) The study (scientific, systematic, and data-driven) of erminants (causes, risk factors) of health-related state populations (neighborhood, school, city, state, country)	s and events (not just diseases) in specified
a) epidemiology	b) Dermatology
c) Nephrology	d) Neurology
(54) Probability without any conditions of occurrence of a	n event is considered as
a) non conditional probability	b) conditional probability
c) marginal probability	d) occurrence probability
(55) It is a recruitment technique in which research partici ifying other potential subjects.	pants are asked to assist researchers in ident
a) Snowball Sampling	b) Purposive Sampling
c) Quota Sampling	d) Judgemental Sampling
(56) A bag contains 3 red and 2 blue marbles. A marble is ng a black ball is :	drawn at random. The probability of drawi
a) 0.75	b) 0
c) 0.67	d) 0.98

d) Research Documents

c) Research Design

57) It aims at finding a solution for an immediate preparation.	problem facing a society or an industrial/business o
a) Applied Research	b) Explanatory Research
c) Empirical research	d) Conceptual Research
58) It is a way to systematically and scientifically	solve the research problem
a) Data Interpretation	b) Research Methodology
c) Research Design	d) Conceptual Research
59) What is the probability of getting an even num	nber when a dice is thrown?
a) 0.5	b) 0.78
c) 0.89	d) 0.25
60) The probability of winning the first prize in a lare sold, then how many tickets the girl purcha	lottery of a girl is 8/100. If the total of 6000 tickets ased?
a) 480	b) 540
c) 780	d) 1200