



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Business Administration in Hospital Management

Course Name – Business Data Analytics

Course Code - GECS301

(Semester III)

Time : 1 Hr.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) Which is the following issue is considered before investing in Data Mining
 - a) Functionality
 - b) Vendor consideration
 - c) Compatibility
 - d) All of these
- (2) Height, width comes under which type of data?
 - a) Finite
 - b) Discrete
 - c) Continuous
 - d) None of these
- (3) Graphical and numerical methods are specialized processes utilized in
 - a) Education Statistics
 - b) Descriptive Statistics
 - c) Business Statistics
 - d) Social Statistics
- (4) Which ONE of these is an example of raw data?
 - a) An annual company report
 - b) A report on qualitative focus groups
 - c) A transcript from a group.
 - d) A report on a specific industrial sector
- (5) Which hypothesis test should be used to ascertain improvement of the workers' performance before and after training
 - a) 2-sample t test
 - b) 2-sample z test
 - c) Paired t test
 - d) F test
- (6) Which of the following is one of the key data science skills?
 - a) Statistics
 - b) Machine Learning
 - c) Data Visualization
 - d) All of these
- (7) What is valid for a parameter and a statistic associated with repeated random samples o

- of the same size from the same population
- a) Values of a statistic will vary according to the sampling distribution for that statistic. b) Values of both a parameter and a statistic may vary from sample to sample.
- c) Values of a parameter will vary from sample to sample, but values of a statistic will not. d) Values of a parameter will vary according to the sampling distribution for that parameter.
- (8) What is $P(A|B)$ if the probability of event A is 0.2 and the probability of event B is 0.4 and both the two events are independent.
- a) $P(A) \times P(B) = (0.2)(0.4) = 0.08$ b) $P(A) = 0.2$
- c) $P(A)/P(B) = 0.2/0.4 = \frac{1}{2}$ d) None of these
- (9) What is likely to be dependent events?
- a) the size of your house and the size of your shoes b) the weight of your car and its gas mileage
- c) the colors of your car and its gas mileage d) the weather and the number of books on your shelf
- (10) Which of the following is characteristic of Processed Data?
- a) Data is not ready for analysis b) All steps should be noted
- c) Hard to use for data analysis d) None of the mentioned
- (11) What is the range for the following data -- [12 23 34 54 21 8 9 67]
- a) 8 b) 55
- c) 59 d) 56
- (12) What is the median for the following data -- [2 4 3 6 1 8 9 2 5 7]
- a) 10.0 b) 4.7
- c) 2.0 d) 4.5
- (13) What is the characteristic of measures of central tendency?
- a) descriptive statistics that identify the best single value for representing a set of data. b) inferential statistics that identify the spread of the scores in a data set.
- c) inferential statistics that identify the best single value for representing a set of data. d) descriptive statistics that identify the spread of the scores in a data set.
- (14) If most repeated observations recorded are outliers of data, then mode is considered as
- a) poor measure b) intended measure
- c) percentage measure d) best measure
- (15) What does the distribution which shows cumulative figure of all observations placed below upper limit of classes in distribution considered as?
- a) class distribution b) cumulative frequency distribution
- c) upper limit distribution d) cumulative class distribution
- (16) Three dimensional diagrams are named as so because they consider both
- a) breadth and depth b) depth and length
- c) length and breadth d) depth, length and breadth
- (17) Choose from the following that are Decision Tree nodes?
- a) Decision Nodes b) End Nodes
- c) Chance Nodes d) All of these
- (18) What Pivot Table toolbar button of MS-Excel updates the data in a Pivot Table or Pivot Chart report if the source data has changed
- a) Pivot Table b) Format Report

c) Refresh Data

d) Show Detail

(19) What are the frequencies of all specific values of x and y variables with total calculated frequencies classified as

a) marginal frequencies

b) unconditional frequencies

c) variate frequencies

d) conditional frequencies

(20) The auto calculate feature of MS-Excel _____.

a) Automatically creates formulas and adds them to a worksheet

b) Can only add values in a range of cells

c) None of these

d) Provides a quick way to view the results of an arithmetic operation on a range of cells

(21) The cell reference in MS-Excel for a range of cells that starts in cell B1 and goes over to column G and down to row 10 is _____.

a) B1.G10

b) B1-G10

c) B1,G10

d) B1:G10

(22) What does SUMIF function of MS-Excel do

a) Adds up cell values based on a condition

b) Returns a subtotal in a list or database

c) Adds all the numbers in a range of cells

d) All of these

(23) Except for the _____ function, a formula in MS-Excel with a logical function shows the word "TRUE" or "FALSE" as a result

a) IF

b) NOT

c) OR

d) AND

(24) How do you classify Diagrams used to represent grouped and ungrouped data

a) breadth diagrams

b) width diagrams

c) bar diagrams

d) length diagrams

(25) If vertical lines are drawn at every point of straight line in frequency polygon then by this way frequency polygon is transformed into

a) histogram

b) width diagram

c) dimensional bar charts

d) length diagram

(26) What is true about data visualization?

a) It helps people see their future

b) It transforms data to the most basic form

c) It helps people make sense of data

d) It helps researchers combine information

(27) Information design focuses on representing information in what way?

a) Such that it can be seen.

b) Such that it can be felt.

c) Such that it can be heard.

d) Such that it can be quickly answered and easily learned.

(28) _____ is a subset of _____.

a) Data visualization, information design

b) Information design, visual modality

c) Information design, data visualization

d) None of these

(29) Which of the following is NOT considered a best practice for creating a visual display?

a) Filter out extraneous data that are not needed for the visual

b) Relate the data in a way that creates relationships

c) Maintain a log of actions in order to go backwards or forwards in the creation of a data visualization

d) Use as much data as is possible, even if it is far beyond the scope of the message, to create the data visualization

- (30) Which of the following is NOT a trend in data visualization?
a) Server-Side Architectures
b) Reducing the Amount of Data
c) Mobility
d) Device Transparency
- (31) Information is most commonly represented in the _____ modality.
a) Visual
b) Auditory
c) Kinesthetic
d) All of these
- (32) Charts and graphs are related in that _____ often represents the input, and _____ represents the output.
a) An image, a movie
b) A graph, a chart
c) A chart, a graph
d) None of these
- (33) Which of the following is NOT a characteristic of Excel?
a) Stores information in a tabular form
b) Uses cells
c) Can play movies
d) Can display information
- (34) What is data? I. Computer readable information II. Information collected about the physical world III. Programs that process images IV. Graphs and charts
a) II and IV
b) I and II
c) I, II, and IV
d) I, II, III, and IV
- (35) Which of the following statements is an example of computer readable data?
a) A handwritten note
b) Brain waves
c) A physical photograph
d) A digital spreadsheet filled with measurements about the air quality of different major cities
- (36) In which of the following would a chart BEST help to accomplish the accompanying task described?
a) You want to track the number of times you say "hello" today
b) Your school wants to track how many people attend the football games over time throughout the school year
c) You are trying to figure out what happens when different colors are mixed
d) You need instructions on how to bake a cake
- (37) A natural science museum opened a new display that lets the visitors view animations of how the health of a coral reef varies based on water temperature, pollution levels, and the number of fish living around the reef. The visitors are able to choose a numerical value for each of the conditions. The exhibit's animations are determined by using a database to look up how healthy the coral reef is at the particular settings the visitor chooses and displaying a corresponding picture. What is one advantage of using an interactive exhibit like this instead of showing a poster with the same information?
a) The visitors will be more entertained by the exhibit but won't learn any more than they would have from just looking at a poster.
b) By allowing the visitors to interact with the exhibit, the visitors will be able to understand coral reefs better.
c) The interactive display will be more visually appealing than a static poster.
d) Scientists will be able to learn more about the coral reefs by tracking the visitors' interactions.
- (38) What is the specification or description of the relationship between the dependent and independent variables is generally called
a) a function
b) a constraint
c) a declaration
d) a mathematical model

- (39) A MS-Excel function inside another function is called a _____ function.
- a) Round
 - b) Sum
 - c) Nested
 - d) Text
- (40) What is the class interval when largest value is 60 and smallest value is 40 and number of classes desired is 5 ?
- a) frequency distribution
 - b) nominal distribution
 - c) chronological distribution
 - d) ordinal distribution
- (41) What is the keyboard shortcut (button or buttons to be pressed) in MS-Excel for creating a chart from the selected cells
- a) F3
 - b) F5
 - c) F7
 - d) F11
- (42) If vertical lines are drawn at every point of straight line in frequency polygon then by this way frequency polygon is transformed length diagram into
- a) length diagram
 - b) histogram
 - c) width diagram
 - d) dimensional bar charts
- (43) What does general tables of data used to show data in orderly manner called
- a) repository tables
 - b) manifold tables
 - c) single characteristics tables
 - d) double characteristic table
- (44) What is the variance for the following discrete data [2 6 8 3 7 9 1 4]?
- a) 40.0
 - b) 2.74
 - c) 5.0
 - d) 7.5
- (45) How do you classify Diagrams used to represent grouped and ungrouped data?
- a) breadth diagrams
 - b) length diagrams
 - c) width diagrams
 - d) bar diagrams
- (46) While using a pivot table in Excel, you drop the fields of information that you want in the interior of the pivot table in which of the following areas?
- a) Row Labels
 - b) Values
 - c) Report Filter
 - d) Column Labels
- (47) Type of cumulative frequency distribution in which class intervals are added in bottom to top order is classified as
- a) more than type distribution
 - b) marginal distribution
 - c) variation distribution
 - d) less than type distribution
- (48) What define the mean?
- a) the statistical or arithmetic average.
 - b) the best representation for every set of data.
 - c) the most frequently occurring score.
 - d) the middlemost score.
- (49) How do you classify the data table which is presented in tabular form on basis of two or more simultaneous characteristics?
- a) interval table
 - b) complex table
 - c) percentage table
 - d) simple table
- (50) What represent a known value for the population variance?
- a) sigma
 - b) rho
 - c) (sigma)²
 - d) (rho)²
- (51) While using a pivot table in Excel, when you drop information into the "Values" area in the lower-right corner, the default summarization is by summation. Which of the follo

Which tools will you use to change the default summarization?

- a) What-If Analysis
- b) Value Field Settings
- c) Column Labels
- d) PivotTable Field List

(52) Diagrams such as cubes and cylinders are classified as

- a) three dimensional diagrams
- b) dispersion diagrams
- c) one dimension diagrams
- d) two dimension diagram

(53) Belief or claim for a parameter whose value is unknown is classified as?

- a) hypothesis testing
- b) parameter claim testing
- c) expected belief testing
- d) primary limit testing

(54) What is the difference between the value of parameter of population and value of unbiased estimator point classified as

- a) population error
- b) marginal error
- c) confidence error
- d) sampling error

(55) What does the stem consider as in stem and leaf display diagrams used in exploratory analysis?

- a) central digits
- b) leading digits
- c) dispersed digits
- d) trailing digits

(56) Which normal form implements that every determinant is a candidate key

- a) 2NF
- b) 1NF
- c) 3NF
- d) BCNF

(57) Which data mining method utilizes multivariate visualization

- a) Summarization
- b) Regression
- c) Classification
- d) Clustering

(58) _____ are responsible for running queries and reports against data warehouse tables.

- a) Hardware
- b) End users
- c) Software
- d) Middle ware

(59) Which level of work breakdown structure (WBS) can reasonably estimate the project cost and schedule for deliverables

- a) Between Top and Middle level
- b) Top level
- c) Lowest level also called Work Package level
- d) Mid-level

(60) What is another term for KDD ?

- a) KR
- b) Sensual Learning
- c) Inductive Learning
- d) ML