* **Question 1**

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|  | Which of the following scales of measurement are appropriate for quantitative data? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  Interval and ratio | | Answers: | a.  Interval and ordinal | |  | b.  Nominal and ordinal | |  | c.  Ratio and ordinal | |  | d.  Interval and ratio | |  |  |  |

* **Question 2**

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|  | A population is |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  the collection of all items of interest in a particular study. | | Answers: | a.  the same as a sample. | |  | b.  the selection of a random sample. | |  | c.  the collection of all items of interest in a particular study. | |  | d.  always the same size as the sample. | |  |  |  |

* **Question 3**

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|  | In a data set, the number of elements will always be the same as the number of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  observations. | | Answers: | a.  observations. | |  | b.  independent variables. | |  | c.  dependent variables. | |  | d.  data points. | |  |  |  |

* **Question 4**

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|  | Census refers to |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  a survey to collect data on the entire population. | | Answers: | a.  a survey to collect data on the entire population. | |  | b.  an experimental study to collect data on a sample. | |  | c.  a survey to collect data on a sample. | |  | d.  an experimental study to collect data on the entire population. | |  |  |  |

* **Question 5**

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|  | In a sample of 1,600 registered voters, 912 or 57%  approve of the way the President is doing his job. The 57% approval is an example of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  statistical inference. | | Answers: | a.  a population. | |  | b.  a sample. | |  | c.  statistical inference. | |  | d.  descriptive statistics. | |  |  |  |

* **Question 6**

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|  |  | | | |
|  | Statistical studies in which researchers control variables of interest are |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  experimental studies. | | Answers: | a.  observational studies. | |  | b.  non-experimental studies. | |  | c.  experimental studies. | |  | d.  control observational studies. | |  |  |  |

* **Question 7**

0.5 out of 0.5 points

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|  | The set of analytical techniques that yield a best course of action is​ |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  ​prescriptive analytics. | | Answers: | a.  ​diagnostic analytics. | |  | b.  ​predictive analytics. | |  | c.  ​descriptive analytics. | |  | d.  ​prescriptive analytics. | |  |  |  |

* **Question 8**

0.5 out of 0.5 points

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|  | How many scales of measurement exist? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  4 | | Answers: | a.  8 | |  | b.  2 | |  | c.  6 | |  | d.  4 | |  |  |  |

* **Question 9**

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|  | The height of a building, measured in feet, is an example of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  either categorical or quantitative data. | | Answers: | a.  feet data. | |  | b.  categorical data. | |  | c.  either categorical or quantitative data. | |  | d.  quantitative data. | |  |  |  |

* **Question 10**

0.5 out of 0.5 points

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|  | The owner of a factory regularly requests a graphical summary of all employees' salaries. The graphical summary of salaries is an example of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  descriptive statistics. | | Answers: | a.  a sample. | |  | b.  an experiment. | |  | c.  descriptive statistics. | |  | d.  statistical inference. | |  |  |  |

* **Question 11**

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|  | In observational studies, the variable of interest |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  is not controlled. | | Answers: | a.  is not controlled. | |  | b.  must be numerical. | |  | c.  cannot be numerical. | |  | d.  is controlled. | |  |  |  |

* **Question 12**

0 out of 0.5 points

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|  | ​Which of the following is not an example of descriptive statistics? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  ​The proportion of mailed-out questionnaires that were returned | | Answers: | a.  ​A table summarizing the data collected in a sample of new-car buyers | |  | b.  ​The proportion of mailed-out questionnaires that were returned | |  | c.  ​An estimate of the number of Alaska residents who have visited Canada | |  | d.  ​A histogram depicting the age distribution for 30 randomly selected students | |  |  |  |

* **Question 13**

0.5 out of 0.5 points

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|  | For ease of data entry into a university database, 1 denotes that the student is an undergraduate and 2 indicates that the student is a graduate student. In this case data are |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  categorical. | | Answers: | a.  neither categorical nor quantitative. | |  | b.  quantitative. | |  | c.  either categorical or quantitative. | |  | d.  categorical. | |  |  |  |

* **Question 14**

0.5 out of 0.5 points

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|  | In experimental studies, the variable of interest |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  is controlled. | | Answers: | a.  cannot be numerical. | |  | b.  must be numerical. | |  | c.  is controlled. | |  | d.  is not controlled. | |  |  |  |

* **Question 15**

0.5 out of 0.5 points

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|  | A portion of the population selected to represent the population is called |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  a sample. | | Answers: | a.  a census. | |  | b.  descriptive statistics. | |  | c.  statistical inference. | |  | d.  a sample. | |  |  |  |

* **Question 16**

0.5 out of 0.5 points

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|  | Many data analysts define big data by referring to the three V’s of data, which include all of the following except​ |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  ​Validity. | | Answers: | a.  ​Validity. | |  | b.  ​Velocity. | |  | c.  ​Volume. | |  | d.  ​Variety. | |  |  |  |

* **Question 17**

0.5 out of 0.5 points

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|  | Data dash-board is an analytical technique that falls in the category of​ |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  ​descriptive analytics. | | Answers: | a.  ​prescriptive analytics. | |  | b.  ​predictive analytics. | |  | c.  ​descriptive analytics. | |  | d.  ​diagnostic analytics. | |  |  |  |

* **Question 18**

0.5 out of 0.5 points

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|  | The major applications of data mining have been made by companies with a strong \_\_\_\_\_\_\_ focus.​ |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  consumer | | Answers: | a.  ​wholesale | |  | b.  consumer | |  | c.  ​manufacturing | |  | d.  ​research and development | |  |  |  |

* **Question 19**

0.5 out of 0.5 points

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|  | Ordinary arithmetic operations are meaningful |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  only with quantitative data. | | Answers: | a.  only with categorical data. | |  | b.  only with quantitative data. | |  | c.  either with quantitative or categorical data. | |  | d.  with neither quantitative or categorical data. | |  |  |  |

* **Question 20**

0 out of 0.5 points

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|  | Which of the following variables uses the interval scale of measurement?​ |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  ​Student ID number | | Answers: | a.  ​Vehicle miles-per-gallon | |  | b.  ​Time duration | |  | c.  ​Standardized test score | |  | d.  ​Student ID number | |  |  |  |

* **Question 21**

0.5 out of 0.5 points

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|  | A survey to collect data on the entire population is |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  a census. | | Answers: | a.  an inference. | |  | b.  a sample. | |  | c.  a census. | |  | d.  a population. | |  |  |  |

* **Question 22**

0.5 out of 0.5 points

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|  | Data collected at the same, or approximately the same point in time are |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  cross-sectional data. | | Answers: | a.  approximate data. | |  | b.  approximate time series data. | |  | c.  time series data. | |  | d.  cross-sectional data. | |  |  |  |

* **Question 23**

0 out of 0.5 points

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|  | Which of the following variables use the ratio scale of measurement? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  Temperature | | Answers: | a.  Income | |  | b.  Gender | |  | c.  Social security number | |  | d.  Temperature | |  |  |  |

* **Question 24**

0.5 out of 0.5 points

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|  |  | | | |
|  | In a sample of 1,600 registered voters, 912 or 57% approve of the way the President is doing his job. A political pollster estimates: "Fifty-seven percent of all voters approve of the President." This statement is an example of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  statistical inference. | | Answers: | a.  descriptive statistics. | |  | b.  a sample. | |  | c.  a population. | |  | d.  statistical inference. | |  |  |  |

* **Question 25**

0.5 out of 0.5 points

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|  | All the data collected in a particular study are referred to as the |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  data set. | | Answers: | a.  inference. | |  | b.  variable. | |  | c.  data set. | |  | d.  population. | |  |  |  |

* **Question 26**

0.5 out of 0.5 points

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|  | The average age in a sample of 190 students at City College is 22. As a result of this sample, it can be concluded that the average age of all the students at City College |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  is around 22. | | Answers: | a.  must be more than 22, since the population is always larger than the sample. | |  | b.  could not be 22. | |  | c.  must be less than 22, since the sample is only a part of the population. | |  | d.  is around 22. | |  |  |  |

* **Question 27**

0.5 out of 0.5 points

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|  | ​Simulation, which is the use of probability and statistical computer models to better understand risk, falls under the category of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  ​predictive analytics. | | Answers: | a.  ​descriptive analytics. | |  | b.  ​prescriptive analytics. | |  | c.  ​predictive analytics. | |  | d.  ​diagnostic analytics. | |  |  |  |

* **Question 28**

0.5 out of 0.5 points

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|  | Different methods of developing useful information from large data bases are dealt with under |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  data mining. | | Answers: | a.  big data. | |  | b.  data manipulation. | |  | c.  data warehousing. | |  | d.  data mining. | |  |  |  |

* **Question 29**

0.5 out of 0.5 points

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|  | The collection of all elements of interest in a particular study is |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  the population. | | Answers: | a.  the population. | |  | b.  statistical inference. | |  | c.  the sample. | |  | d.  descriptive statistics. | |  |  |  |

* **Question 30**

0.5 out of 0.5 points

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|  | In a sample of 400 students in a university, 80 or 20%  are Business majors. Based on the above information, the school's paper reported that "20% of all the students at the university are Business majors." This report is an example of |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  statistical inference. | | Answers: | a.  a sample. | |  | b.  a population. | |  | c.  statistical inference. | |  | d.  descriptive statistics. | |  |  |  |

Wednesday, February 12, 2020 2:27:12 PM PST