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| 1. GIS data that are descriptive and not location-based are:   |  |  |  | | --- | --- | --- | |  | a. | Geospatial | |  | b. | Coordinate | |  | c. | Fixed | |  | d. | Non-Spatial |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 2. In ArcGIS Pro, the spatial and non-spatial information about a layer is stored in its:   |  |  |  | | --- | --- | --- | |  | a. | Attribute table | |  | b. | Spatial field | |  | c. | Excel file | |  | d. | Parcel database |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 3. The rows of an attribute table represent:   |  |  |  | | --- | --- | --- | |  | a. | Fields | |  | b. | Records | |  | c. | Layers | |  | d. | Attributes |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 4. The columns of an attribute table represent:   |  |  |  | | --- | --- | --- | |  | a. | Objects | |  | b. | Points | |  | c. | Records | |  | d. | Fields |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 5. A map of the locations of car race winners displayed by their placement ranking is an example of which kind of data?   |  |  |  | | --- | --- | --- | |  | a. | Nominal | |  | b. | Ordinal | |  | c. | Interval | |  | d. | Ratio |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 6. A map of the locations of California four-year universities displayed by the average tuition costs is an example of which kind of data?   |  |  |  | | --- | --- | --- | |  | a. | Nominal | |  | b. | Ordinal | |  | c. | Interval | |  | d. | Ratio |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 7. Celsius temperature is an example of which kind of data?   |  |  |  | | --- | --- | --- | |  | a. | Nominal | |  | b. | Ordinal | |  | c. | Interval | |  | d. | Ratio |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 8. Your phone number is an example of which kind of data?   |  |  |  | | --- | --- | --- | |  | a. | Nominal | |  | b. | Ordinal | |  | c. | Interval | |  | d. | Ratio |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 9. A map of the locations of the Great Lakes labeled with the name of each lake is showing which kind of data?   |  |  |  | | --- | --- | --- | |  | a. | Nominal | |  | b. | Ordinal | |  | c. | Interval | |  | d. | Ratio |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 10. In terms of joining tables, what does a key represent?   |  |  |  | | --- | --- | --- | |  | a. | The table that the data is being joined from | |  | b. | The single record being used to join the tables | |  | c. | The field that the two tables have in common | |  | d. | The internal relation in the database between the two tables |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 11. When a single record is linked to another single record in a join, what kind of join has occurred?   |  |  |  | | --- | --- | --- | |  | a. | Many-to-one join | |  | b. | One-to-many join | |  | c. | One-to-all join | |  | d. | One-to-one join |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 12. The total number of relational operators used in a simple query is:   |  |  |  | | --- | --- | --- | |  | a. | Zero | |  | b. | One | |  | c. | Two | |  | d. | Three |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 13. A connector such as =, >, or <= used in an SQL query in ArcGIS Pro is referred to as a:   |  |  |  | | --- | --- | --- | |  | a. | Conditional Operator | |  | b. | Fixed Operator | |  | c. | Relational Operator | |  | d. | Connecting Operator |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 14. In ArcGIS Pro, the process of choosing records from an attribute table and holding them aside to work with separately is called:   |  |  |  | | --- | --- | --- | |  | a. | Selection | |  | b. | Relational Operators | |  | c. | Attachment | |  | d. | Geotag |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 15. What is the result of using AND in a compound query of two statements?   |  |  |  | | --- | --- | --- | |  | a. | The results of the query will be the records that meet both query statements. | |  | b. | The results of the query will be the records that meet either one of the query statements. | |  | c. | The results of the query will be the records that meet either one of the query statements but not the records that meet both statements. | |  | d. | The results of the query will be the records that do not meet either one of the query statements. |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 16. What is the result of using OR in a compound query of two statements?   |  |  |  | | --- | --- | --- | |  | a. | The results of the query will be the records that meet both query statements. | |  | b. | The results of the query will be the records that meet either one of the query statements. | |  | c. | The results of the query will be the records that meet either one of the query statements but not the records that meet both statements. | |  | d. | The results of the query will be the records that do not meet either one of the query statements. |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 17. A geotag in ArcGIS Pro describes which of the following?   |  |  |  | | --- | --- | --- | |  | a. | A file that can be downloaded from the Internet into ArcGIS Pro | |  | b. | A file that is joined to Census attribute data | |  | c. | A process whereby non-spatial media are linked to geospatial features | |  | d. | A process that is used to insert a photo into a geodatabase |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 18. How are U.S. Census Bureau data used in GIS?   |  |  |  | | --- | --- | --- | |  | a. | TIGER/Line files come pre-loaded with all available attribute data. | |  | b. | Attribute data are acquired separately from Cartographic Boundary Files and then must be joined to those files. | |  | c. | Three different files must be linked together—TIGER/Line, Cartographic Boundary, and American Community Survey datasets | |  | d. | All GIS data (geospatial and attribute) are available from the U.S. Census Bureau’s ACS Data Portal |  |  |  | | --- | --- | | *ANSWER:* | b | |