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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 |

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| *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 |

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| *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 |

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| --- | --- |
| *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 |

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| *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. |

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| --- | --- |
| *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. |

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| --- | --- |
| *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 |

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