P P SAVANI UNIVERSITY

Second Semester of M.Plan. Examination
September 2022
SAUP7100 ADVANCE PLANNING TECHNIQUES

17.09.2022, Saturday   Time: 12:30 p.m. To 2:30 p.m.   **Maximum Marks: 50**

Instructions:
1. Assume suitable data where necessary.
2. Data given and assumed, in questions must be mentioned in the answers

Q - 1   Select the correct option.   [10]

(i)   Which of the following doesn't determine the capability of GIS?
     a) Defining a map
     b) Representing cartographic feature
     c) Retrieving data
     d) Transferring data

(ii)   Which of the following can be used for representing a real-world feature on two dimensional surfaces?
     a) Plan
     b) Drawing
     c) Scale
     d) Map

(iii)   GIS was coined by _____.
     a) Roger Tomlinson
     b) Roger James
     c) Richard
     d) None of the above

(iv)   A process where a survey plan or hard copy is a map and is represented in a digital medium using geo-referencing capabilities and CAD tool is called _____ technique.
     a) Digitization
     b) Modulation
     c) Demodulation
     d) None of the above

(v)   What is Surveying?
     a) Surveying is used to find the elevations of given points with respect to given or assumed datum
     b) Surveying shows the relative positions of the objects on the surface of the earth
     c) Surveying is to find the elevation of points having the same contour interval
     d) All of the mentioned

(vi)   GIS is an abbreviation for
     a) Geography information science
     b) Geography information system
     c) Geographic information system
     d) Geographic information science

(vii)   Which of the following is a shape file format?
     a) Shp
     b) Tiff
     c) Both a & b
     d) None of the above

(viii) _____ is a measure of the smallest object that can be resolved by the sensor, or the ground area images for the instantaneous field of view (IFOV) of the sensor, or the linear dimension on the ground represented by each pixel.
- a) spatial resolution
- b) pixel
- c) remote sensing
- d) none of the above

(ix) GIS represents a location in _____ dimensional coordinates.
- a) 2
- b) 3
- c) 4
- d) 5

(x) Digital data in GIS is represented using _____ data creation methods.
- a) Analog
- b) Digital
- c) Both a and b
- d) None of the above

Q - 2 State if the statement is true or false. [05]
(i) Vector data has an associated attribute table
- a) True
- b) False

(ii) Elevation data can be obtained from the Landsat series of satellite
- a) True
- b) False

(iii) GIS is a software
- a) True
- b) False

(iv) Tile in satellite image is also known as footprint
- a) True
- b) False

(v) The false colour composition (FCC) of vegetation is green
- a) True
- b) False

Q - 3 Give one-word answer for the following questions. [05]
(i) The process of determining geographic coordinates for place names, street addresses, and codes is?

(ii) What is the process of converting information into a digital format called?

(iii) Which toolset contains tools to overlay multiple feature classes to combine, erase, modify, or update spatial features, resulting in a new feature class?

(iv) Tile in satellite image is also known as?

(v) What does WGS in the projection system WGS 1984 stand for?

Q - 4 What are the different types of sampling techniques. [10]

OR

| Q - 4 | What are the types of remote sensing resolution? explain in detail | [10] |

| Q - 5 | What is remote sensing and explain classification techniques? | [20] |

OR

| Q - 5 | How does remote sensing help in the planning sector? | [20] |

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