Assessment Test Key
Irrigation Assets Mapping Using GIS – Batch I
05-09, July, 2021

1. Which Type of GIS data model will be created while digitizing the Contours using Survey of India Topo-sheet?

Ans : Vector Data Model

2. What is best data model to capture continuous varying quantity like temperature, elevation etc in GIS?

Ans : Raster Data Model

3. What is TIN Data

Ans : TIN (Triangular irregular network) is 3d vector data to represent 3d surface model

4. What is geo-referencing in GIS? What is your statement if one say that you did not geo-reference your vector data properly?

Ans : It is process to assign geo- coordinates to every pixels of raw raster data using particular geographic reference system.

Vector data cannot be geo-referenced. If vector data is not perfectly overlay then it is the wrongly geo-referenced raster data using which vector data was created.

5. Which datum and PCS system you will use for doing any GIS analysis for Telangana State of India?

Ans : WGS 84/UTM 44N

6. How you will insert North Arrow in GIS Map while exporting it into printable format in QGIS 3.12?

Ans : By using north arrow tool (left hand side menu) of map composer Then dragging a small square box on the printable area will insert north arrow.

7. Which tool in QGIS is used to create an island in a waterbodies polygon vector layer?
Ans : Add ring tool (advance digitisation toolbox)

8. Which type of Data vector layer you will use to digitize the river if it cover a substantial area in your Project extent area?

Ans : Polygon Type

9. If you are not able to split/merge a the polygon feature in a polygon type vector layer using split tool of advance digitization in QGIS then what may be the reason?

Ans : Polygon feature may have some digitisation Error (Topological Error)

10. Which tool in QGIS is used to show a linked information(photos, pdf etc) with a feature in vector layer ?

Ans : Run Feature Action Tool

11. Which statement/s is/are correct?

Ans :   GIS MAP is dynamic map which can be modified as per requirement of user
**   Attribute table is associated with Both Raster Data & Vector Data**
**   Raster Data may be created using Vector Data**

12. What are the various plugins are used in this training program?

Ans : QuickMap Services, QuickOSM, Geo-referencer

13. What Structure "A" should be in the image?

Ans : Siphon

14. What are the basic Interpretation Elements are used for identification of any feature in Remote Sensing Image

Ans : Shape, shadow, pattern, texture, etc

15. Which tool in QGIS is used to grab the vertex point or line segments of another feature in vector layer while digitization?

Ans: Snap tool

16. Which tool is used to see the information about any feature in any GIS layer in QGIS?

Ans : Identify feature tool

17. What do you mean by administrative boundaries level 3?

Ans : Taluka boundaries

18. Which type of classification method you will use in case of vector layer of Reservoirs in QGIS?

Ans : Graduated(in the example dealt during the training)

19. How do you verify if your data is properly geo-referenced or not?

Ans : By overlaying it on google satellite map

20. Describe the flow process for digitization of any feature using Satellite Imagery with the name of tools used in QGIS

Ans : 1 Create empty shape file, 2. Toggle editing, 3. Click add feature, 4. Now using mouse, start digitisation by adding points using left click along the feature on raster data. 5 press right click to stop editing.