

SET I

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore-641 043
Bachelor's Degree Examination – November-2018
V Semester**

**Class : III UG
Major : Physics**

**Time :3 hours
Max. Marks: 100**

**15BPHC13-Geographic Information System
Part-A**

10 x 1=10

Choose the correct answer

1. GIS stands for
 - a. Geographic Information System
 - b. Geographic information Science
 - c. Geologic Information System
 - d. None of the above
2. Digitizer is
 - a. Output device
 - b. Input device
 - c. Voice recognizer
 - d. Display device
3. UTM
 - a. Universal Topo Mapper
 - b. Universal Transverse Mercator
 - c. Universal Thematic Mapping
 - d. Universal Transverse Mapper
4. RDBMS
 - a. Relational Data Basic Management System
 - b. Relational Data Basic Mapping System
 - c. Relational Data Base Management System
 - d. All of the above
5. Location is a _____
 - a. Census data
 - b. Spatial data
 - c. Non-Spatial data
 - d. None of the above
6. An Example of Spatial data _____
 - a. Road
 - b. Water
 - c. Population
 - d. Air
7. A polygon should contain ----- labels
 - a. One
 - b. Two
 - c. many
 - d. Zero
8. An example of spatial errors vector data is ____
 - a. Spike
 - b. salt and pepper
 - c. Noise
 - d. None of the above
9. FCC is
 - a. Feature Colour Composite
 - b. False Colour Composite
 - c. Fade colour Composite
 - d. Foreign Colour Composite
10. Shutter
 - a. Determine Speed of the film
 - b. Determines duration of film to be exposed
 - c. Determines the sale of the aerial photo
 - d. Determines the amount of the light

: 2 :

Part- B

5x6=30

Answer the following

Answer should not exceed 400 words or two pages

11.a. Mention the advantages of GIS

Or

11.b. Bring out the GIS outputs

12.a. Briefly explain run length coding

Or

12.b. Give a note on hierarchal data structure

13.a. What is attribute data? Give example

Or

13.b. Give a note on non-spatial data

14.a. What are overshoot and under shoot error?

Or

14.b. Mention about GIS data quality parameters.

15.a. Briefly explain the advantages of colour infrared films

Or

15.b. Mention the advantages of digital aerial photographs

Part- B

5x12=60

Answer the following

Answer should not exceed 800 words or four pages

16.a. Give detailed account on elements of GIS

Or

16.b. Explain the applications of GIS

17.a. Write an essay on the types of data base systems.

Or

17.b. Explain the types of different map projections.

18.a. Explain how spatial data are entered in GIS

Or

18.b. Examine the various sources of spatial data.

19.a. Elaborate the sources of errors in GIS

Or

19.b. Explain about common features of a GIS software.

20.a. Write an essay on the classification of sensing devices.

Or

20.b. Explain the various cameras used in aerial photography
