

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2019

17UCA5ES02 – GEOGRAPHICAL INFORMATION SYSTEM

Date: 06-11-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART A

(10 x 2 = 20 marks)

Answer ALL the questions.

1. Define spatial data.
2. What is Generalization?
3. Differentiate ordinal scale and interval scale.
4. What is DTM?
5. Draw the figure of data stream.
6. ----- and ----- software are used to read the data automatically.
7. List the two automatic digitizing methods.
8. What is Reclassification?
9. Mention the classifications of a process model.
10. What is routed line cartogram?

PART B

(5 x 8 = 40 marks)

Answer ALL the questions.

11. a. Explain about the thematic characteristics of spatial data.
(OR)
b. Describe the purpose of a map.
12. a. Explain the steps involved to build computer world.
(OR)
b. Explain about modelling surfaces.
13. a. Describe Re-projection and Transformation.
(OR)
b. Explain about edge matching and rubber sheeting.
14. a. Explain about spatial interpolation.
(OR)
b. How are the length, perimeter and area measured in GIS? Explain.
15. a. Differentiate cartographic and Non-cartographic output.
(OR)
b. Describe conceptual and mathematical models.

PART C

(2 x 20 = 40 marks)

Answer any TWO questions

16. a. Explain the other sources used in spatial data.
b. Explain about spatial data structures with its types.
17. a. Explain in detail about the various inputting methods in GIS.
b. Explain about the Analysis of surfaces.
18. a. Explain the steps involved for the maps to serve as an output in GIS.
b. Compare the modelling of third and fourth dimension.

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