



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A.DEGREE EXAMINATION –COMPUTER APPLICATIONS

FIFTH SEMESTER – APRIL 2019

16UCA5ES02– GEOGRAPHICAL INFORMATION SYSTEM

Date: 24-04-2019
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A (10*2=20 Marks)

Answer ALL the questions.

1. Define GIS.
2. What is a thematic data?
3. Define supply and demand.
4. What is a spatial data model?
5. State any two methods of data input and editing.
6. What is data editing?
7. What is Reclassification?
8. Give any two examples of Travelling Salesperson problem.
9. State the three approaches to model spatial processes.
10. Define routed line cartogram.

PART B (5 * 8=40 Marks)

Answer ALL the questions.

11. a. Explain the components of GIS.
(OR)
- b. Explain different types of projections.
12. a. Explain the steps involved to build computer world.
(OR)
- b. Explain about spatial data models.
13. a. Explain the process of Edge matching and rubber sheeting.
(OR)
- b. How will you detect and correct the errors in GIS? Explain.
14. a. Explain about spatial interpolation
(OR)
- b. How are the length, perimeter and area measured in GIS? Explain.
15. a. How can we model the human processes in GIS? Explain
(OR)
- b. Explain Cartographic and Non- cartographic output.

PART C (2 * 20= 40 Marks)

Answer any TWO questions.

- 16 a. Explain the other sources used in spatial data.
b. Describe Modelling surfaces.
- 17 a. Describe about Electronic Data Transfer.
b. Explain Shortest path problem and Travelling salesperson problem with example.
- 18 a. Describe how the Maps serves as an output in GIS.
b. Compare the modeling of third dimension and fourth dimension.
