

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.

Branch: Institutional Elective

Course Code: 21CV7OERSG

Course: Remote Sensing and Geographic Information System

Semester: VII

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data if any, may be suitably assumed.

UNIT - I

- 1 a) Explain the silent features of the geodatabase. **05**
- b) Explain topology and its benefits in the geodatabase. **05**
- c) Explain the structural elements of geodatabase with a schematic diagram. **10**

UNIT - II

- 2 a) Explain the basics of MC Decision problems. **10**
- b) Differentiate between MODM and MADM. **10**

UNIT - III

- 3 a) Differentiate between Vector and Raster Data. Explain the key characteristics of Raster data manipulation operations. **10**
- b) Explain the following topological operations **10**
 - i) Buffering
 - ii) Overlay
 - iii) Dissolve
 - iv) Clip

UNIT - IV

- 4 a) Explain the mechanism of GIS integration with decision making in Expert GIS. **10**
- b) Elaborate on advanced database technology. **10**

OR

- 5 a) Elaborate on Mobile GIS and its capabilities. **10**
- b) Explain the application of the location based services with GIS integration in helping business productivity. **10**

UNIT - V

- 6 a) Explain Enterprise GIS highlighting the capabilities and objectives. **10**
- b) Elaborate on the new spatial data models. **10**

OR

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

- | | | |
|---|--|-----------|
| 7 | a) Elaborate on enterprise GIS management. | 10 |
| | b) Discuss case studies on use of GIS in Disaster Management in flooded areas. | 10 |

SUPPLEMENTARY EXAMS 2023