

**Parvatibai Chowgule College of Arts and Science  
Autonomous**

B.SC. Semester End Examination, Jan. / Feb. 2022

Semester: III

Subject: Geography

Title: Applied GIS

Duration: 2 Hours

Max. Marks: 45

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Instructions:

1. All questions are compulsory.
  2. Figures on the right side indicate marks.
  3. Answers should be handwritten. The time allocated is from 10.00am to 1.00pm.
  4. Ensure that answer sheet is converted into PDF document and upload it before 1.00pm.
  5. Instruction for format of answer sheet and PDF document uploaded on Google Classroom.
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**Q1.** Answer any **THREE** of the following.

**(3X3=09)**

- A. What are the geospatial approaches to relocate facilities?
- B. Briefly explain use of GIS helps in demand responsive passenger transport system used by OLA and UBER?
- C. How the global positioning system (GPS) technology is used in customer's home delivery services by EKART?
- D. How GIS helps in identification of areas of deprivation?

**Q2.** Answer any **TWO** of the following.

**(2X6=12)**

- A. Explain how GIS is used in real estate business with respect to housing price Mass Appraisal.
- B. How GIS is used by State Government to implement government schemes?
- C. What is life style segmentation? Discuss the applications of GIS in marketing gender specific goods?

**Q3.** Answer any **TWO** of the following.

**(2X6=12)**

- A. Elaborate the role of GIS in transport network management in urban areas?
- B. Discuss the steps used in land use change monitoring using GIS?
- C. Differentiate between the applications of GIS in assessing the service provision in rural and urban areas.

**Q4.** Answer any **ONE** of the following.

**(1X12=12)**

- A. Discuss the determinants of regional economic development and explain how GIS helps in identification of regional economic issues? What kind of data is used to map the patterns of regional development?
- B. What is probability based GIS? Explain how GIS integrated analytical procedures are used in crime analysis?

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