M.Sc. 3rd Semester Examination-2022-23

GEO-INFORMATICS

Course ID: 33151

Course Code: GI-301T

Course Title: Database Management System,
GNSS and GPS

Time: 2 Hours

Full Marks: 40

The figures in the right hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any four questions selecting at least one from each unit.

UNIT-I : Database Management System

1. Write down the properites of RDBMS

5

· What do you mean by "Tuple"?

2

- What is the function of Data Manipulation
 Language?
- Write a short note on temporal and object oriented database. Explain one to many Relationship and data redundancy.

(Turn Over)

UNIT-II: GNSS

- Discuss the main functions of Ground Control Segment of GNSS.
 - Which part of the Electromagnetic wavelength is used by GNSS?
 - What is the purpose of the atomic clocks on-board the satellites?
 - What technique is used by GNSS receivers to determine their locations? Explain in brief.
- Briefly explain the differences between ophemeris
 and almanac data.
 - What is Anti-spoofing?
 - Explain the Multipath Error.

UNIT-III: Differential Global Navigation Satellite System

- Briefly describe different type of GPS surveying method.
 Describe the term double difference.
- Write down the three applications of GNSS. Explain the working principles of DGNSS with proper illustrations.

3+7