2024
B.A./B.Sc.
Sixth Semester
CORE – 14
GEOLOGY
Course Code: GLC 6.21
(Remote Sensing & GIS)

Total Mark: 70 *Pass Mark: 28*
Time: 3 hours

Answer five *questions, taking* one *from each unit.*

UNIT–I

1. What is remote sensing? Explain the principles involved in remote sensing. 2+12=14

2. Write notes on the following: 7×2=14
   (a) Relief displacement
   (b) Procedure for stereoscopic vision

UNIT–II

3. Discuss the elements involved in air photo interpretation. 14

4. What are the methods employed to differentiate metamorphic rocks in aerial photography analysis? 14

UNIT–III

5. What are the various techniques used in image enhancement for remote sensing applications. 14

6. Write notes on the following: 7×2=14
   (a) Image filtering
   (b) Image rationing

UNIT–IV

7. What is GIS? Illustrate its practical applications. 4+10=14

8. Write notes on the following: 7×2=14
   (a) Coordinate systems
   (b) Projection systems

UNIT–V

9. Explain the working principle of GPS and its applications in geosciences. 14

10. Write notes on the following: 7×2=14
    (a) Components of GPS
    (b) GPS signal