

2023
B.A./B.Sc.
Sixth Semester
CORE – 14
GEOLOGY
Course Code: GLC 6.21
(Remote Sensing & GIS)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Define aerial photographs. Discuss its different types. 2+12=14
2. Write notes on the following: 7×2=14
 - (a) Scale and resolution
 - (b) Vertical exaggeration and distortion

UNIT-II

3. Discuss in detail the concepts of remote sensing. 14
4. Write notes on the following: 7×2=14
 - (a) Remote sensing scanners
 - (b) Characteristics of satellite

UNIT-III

5. Discuss in detail about the digital image processing and its rectification processes. 8+6=14
6. Write notes on the following: 7×2=14
 - (a) Colour compositing
 - (b) Image enhancement

UNIT-IV

7. What is datum? Briefly explain the major types of datum features. 4+10=14
8. Write notes on the following: 7×2=14
- (a) DEM analysis
 - (b) Differences between co-ordinate and projection system

UNIT-V

9. Explain in detail the application of GIS in earth system sciences. 14
10. Write notes on the following: 7×2=14
- (a) Concepts of GPS
 - (b) Integrating GPS data with GIS
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