

2022
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 photogeology? Explain the elements of aerial photo interpretation. 4+10=14
2. Write notes on the following: 7×2=14
 - (a) Principles of stereoscopy
 - (b) Acquisition of aerial photographs

UNIT-II

3. Explain active and passive sensors with examples. 14
4. Explain satellites and their characteristics. 14

UNIT-III

5. Write notes on the following: 7×2=14
 - (a) Supervised and unsupervised classification
 - (b) Filtering
6. Write notes on the following: 7×2=14
 - (a) Radiometric correction
 - (b) Geometric correction

UNIT-IV

7. Define GIS. Briefly explain the components of GIS. 4+10=14
8. Write notes on the following: 7×2=14
- (a) Raster data
 - (b) Cylindrical map projection

UNIT-V

9. Define GPS. Explain the working principles of GPS. 4+10=14
10. Write notes on the following: 7×2=14
- (a) Control segments of GPS
 - (b) Use of GPS in positioning and navigation
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