2024
M.Sc.
Fourth Semester
CORE – 12
GEOLOGY
Course Code: MGLC 4.21
(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 a spectral response curve? Explain the significance in identifying and distinguishing features in the imagery. 2+12=14

2. Write notes on the following: 7×2=14
   (a) Electromagnetic spectrum
   (b) Tone and shadow

UNIT–II

3. What is stereoscopy? Explain the procedures to create stereoscopic viewing. 2+12=14

4. Write notes on the following: 7×2=14
   (a) Photography according to orientation of camera axis
   (b) Principles of photo mosaics

UNIT–III

5. What are the main components of a satellite? How do they function to perform their task? 14

6. Write notes on the following: 7×2=14
   (a) LANDSAT
   (b) SPOT

UNIT–IV

7. Explain how image enhancement improve the interpretability of satellite imagery. 14

8. Write notes on the following: 7×2=14
   (a) Digital image processing
   (b) Radiometric correction

UNIT–V

9. What are raster and vector data? How do they differ in terms of data representation? 7+7=14

10. Write notes on the following: 7×2=14
    (a) Application of GPS
    (b) Map projection
