

B. Sc. 6th Semester (Honours) Examination, 2021-2022

GEOLOGY

Course ID: 62011

Course Code: SHGEL-601C-13(T)

Course Title: Geomorphology, Remote Sensing and GIS

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the right-hand side margin indicate marks.

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

1. Answer *any five* of the following questions: 1X5 = 5
 - a. How Uvalas are formed in a carbonate dominate environment?
 - b. What do you mean by Panchromatic image?
 - c. What is FCC?
 - d. What is geoid?
 - e. Which environment is suitable for the formation of playa lake?
 - f. What is infra-red image?
 - g. Define photo-index.
 - h. Define sensor.

 2. Answer *any two* of the following questions: 5X2 = 10
 - a. Write a short note on Geographical Information System (GIS).
 - b. Briefly describe the different stages/processes involved in Remote Sensing.
 - c. Write down the basic elements for Aerial photo interpretation. What are the roles of tone and texture in the interpretation of Aerial photographs?
 - d. Compare between Whisk broom and Push broom scanning system.

 3. Answer *any one* of the following questions: 10X1 = 10
 - a) State the exogeneous cycle operating on the Earth's surface. Discuss about the different types of weathering processes observed in our surroundings. 2+8=10
 - b) What is satellite? Briefly discuss on the Orbits and Swaths of satellite. What are the advantages of satellite remote sensing? 1+5+4=10
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