

B.Sc. Semester-6 Examination

SE 311

Geology

April-2023

Time : 2-30 Hours]

[Max. Marks : 70

- Instructions:** (i) Draw neat diagrams whenever necessary.
(ii) Write proper answer number.

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- Q-1 Write a detailed note on electromagnetic radiation. (14)
- OR
- Q-1 (a) Remote sensing studies in Gujarat. (07)
(b) Introduction to remote sensing. (07)
- Q-2 Explain the relation of GIS to the students of Geology. (14)
- OR
- Q-2 (a) Hardware modules required in GIS. (07)
(b) Applications of GIS in urban area. (07)
- Q-3 Discuss the terrace and open cast mining methods. (14)
- OR
- Q-3 (a) Assaying. (07)
(b) Exploration by drilling techniques. (07)
- Q-4 Describe the various elements of surveying. (14)
- OR
- Q-4 (a) Borehole and its logging. (07)
(b) Use of prismatic compass. (07)
- Q-5 **Attempt any seven questions out of twelve.** (14)
- (i) Give the full form of ISRO and BISAG.
(ii) What are passive sensors? Give one example.
(iii) When remote sensing started in the world and India?
(iv) What is "Spatial" data?
(v) Name the components of GIS.
(vi) Give the importance of analysis in GIS.
(vii) Name the special mining methods.
(viii) Define winning and o/c working.
(ix) What is level and X-cut?
(x) Name the types of compass.
(xi) What is assaying?
(xii) Name the types of drilling methods.

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