

B.Sc. Sem.-6 Examination

SE-311

Geology

April-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: (i) Draw neat diagrams whenever necessary.

(ii) Write proper answer number.

Q-1 Describe the uses of remote sensing. (14)

OR

Q-1 (a) Energy sources. (07)

(b) Processes in conventional survey. (07)

Q-2 Discuss GIS as a tool in mapping exercises. (14)

OR

Q-2 (a) Components of GIS. (07)

(b) Software modules required in GIS. (07)

Q-3 Define mining. State all the types of mining methods and write a note on terrace mining. (14)

OR

Q-3 (a) Sampling techniques. (07)

(b) Percussion and rotary drilling. (07)

Q-4 Write an explanatory note on deviation testing. (14)

OR

Q-4 (a) Chain surveying. (07)

(b) Altimeter. (07)

Q-5 **Attempt any seven questions out of twelve.** (14)

(i) Define aerial photography. When it was started?

(ii) Give the full form of RESECO and IIRS.

(iii) Name any two satellites of IRS series.

(iv) Name data input devices.

(v) Give two definitions of GIS.

(vi) What is attribute data? Give one example.

(vii) Define ore chute with sketch.

(viii) What is winning and development?

(ix) Define assaying. Give one example.

(x) Define borehole. Give example from Ahmedabad.

(xi) State the elements of surveying.

(xii) Name the equipments used for plane table survey.