

B.Sc. Semester-6 Examination

CC 310

Geology

April-2023

Time : 2-30 Hours]

[Max. Marks : 70

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

Q-1 Describe geochemical and seismic methods of geophysical prospecting with their applications. (14)

OR

- Q-1 (a) Interpretation of maps. (07)
(b) Methods of sampling. (07)

Q-2 Explain earth processes and remedies of natural geohazards. (14)

OR

- Q-2 (a) Environmental implications of avalanche. (07)
(b) Environmental implication of floods. (07)

Q-3 Give general outline of geomorphology and describe geomorphic features of India. (14)

OR

- Q-3 (a) Define neotectonics and recurrent seismicity with examples from Gujarat. (07)
(b) Draw a sketch map of India showing active faults. (07)

Q-4 Write a critical note on mid oceanic ridges. (14)

OR

- Q-4 (a) The findings of Glomar challenger. (07)
(b) Island arcs. (07)

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

- (i) Give names of electrical methods of prospecting.
(ii) Name the cultural features shown on topographical maps.
(iii) Does drone helpful for mineral prospecting and exploration? How? Give example.
(iv) Name two environmental implication of an earthquake.
(v) Mention significance of environmental geology.
(vi) Write two causes of landslides with example.
(vii) What is seismic zonation?
(viii) Draw a labeled figure of dendritic drainage pattern.
(ix) Define geomorphological indicators with examples.
(x) Give four well-known examples of island arcs.
(xi) Define magnetic reversal and hot spot.
(xii) What are four identifying characteristics of mid oceanic ridges?