

Integ M.Sc. in App Geo Sem-6 Examination

AGL 311

Mining & Env. Geology

April 2022

Time : 2-00 Hours]

[Max. Marks : 50

Section -I**Attempt any three questions from section -I**

- Q - 1 Explain basic terminology of mines with different types of mining methods. (14)
- Q - 2 (i) Define Prismatic compass surveying, mention its different parts and uses. (07)
(ii) Write a note on Plane table surveying. (07)
- Q - 3 Explain biogeochemical cycles of nitrogen, phosphorus and Sulphur with the help of neat diagram. (14)
- Q - 4 (i) Discuss causes and effects of global climate change. (07)
(ii) Discuss the earth's radiation budget and the greenhouse gases. (07)
- Q - 5 Describe ozone layer depletion and Milankovitch cycle in detail. (14)
- Q - 6 (i) Write a brief note on ocean acidification and coral bleaching. (07)
(ii) Explain environmental impacts of mining and acid rain. (07)
- Q - 7 Describe causes and consequences of earthquakes with coastal erosion and droughts. (14)
- Q - 8 (i) Define remote sensing and explain how it works. Discuss desertification. (07)
(ii) Explain the application of remote sensing and geographic information systems in environmental management. (07)

Section -II

- Q - 9 **Answer any eight of the following short questions.** (08)
- (i) Define drilling
- (ii) What is stope?
- (iii) What do you mean by sump?
- (iv) Mention the types of biogeochemical cycles.
- (v) What is carbon sink?
- (vi) Write the types of nitrogen fixation.
- (vii) Define earth's radiation budget.
- (viii) Define precession.
- (ix) What are S and P waves?
- (x) What are fjords?
- (xi) Mention the name of processes of coastal erosion.
- (xii) Earthquakes are recorded by instruments are known as?