

B.Sc Semester-6 Examination

SE 311

Geology

April-2024

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** Describe in details aerial versus satellite remote sensing. (14)
- OR**
- Q-1 (a)** Applications of remote sensing. (07)
(b) EMR. (07)
- Q-2** Discuss the various advantages of GIS. (14)
- OR**
- Q-2 (a)** Case study to open a new school in an area. (07)
(b) Introduction to GIS. (07)
- Q-3** Explain the process of prospecting for economic minerals. (14)
- OR**
- Q-3 (a)** Strip mining method. (07)
(b) Open pit mining. (07)
- Q-4** Write a note on use of clinometer compass in the field work. (14)
- OR**
- Q-4 (a)** Logging techniques. (07)
(b) Deviation testing. (07)
- Q-5** **Attempt any seven questions out of twelve.** (14)
- (i) Define wave length. Give the wave length of IR rays.
(ii) Write two concepts of remote sensing.
(iii) What is physics of remote sensing?
(iv) Name any four open source GIS software.
(v) Give organizational context of GIS.
(vi) Provide the full form of GIS and DBMS.
(vii) Define tunnel and drive.
(viii) What is face and hangwall?
(ix) Name any four underground mining methods.
(x) Label two samples you have collected from Abu road and Ambaji.
(xi) Define drilling.
(xii) What is surveying?