

B.Sc. Sem.-5 Examination

CC-303

Geology

March-2025

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 Explain morphological characters, geological time range and Indian horizon of typical pecten fossil shell. (14)
- OR**
- Q-1 (a) Draw a labeled sketch of typical belemnite fossil. (07)
(b) Suture lines in gastropods and cephalopods. (07)
- Q-2 Discuss evidence for an arid shift in climate with case study from Gujarat. (14)
- OR**
- Q-2 (a) Concept of uniformitarianism. (07)
(b) Limitations of palaeoecological studies. (07)
- Q-3 Discuss genesis, classification and types of sedimentary deposits. (14)
- OR**
- Q-3 (a) Sedimentary structures. (07)
(b) Genesis and mode of occurrence of laterite. (07)
- Q-4 Write detail account on dynamics of aeolian, lacustrine and near shore environments. (14)
- OR**
- Q-4 (a) Diagenesis of chemical sediments. (07)
(b) Concept of sedimentary facies. (07)
- Q-5 **Attempt any seven questions out of twelve.** (14)
- (i) Mention four typical shapes of gastropod fossil shell with example.
(ii) Mention at least two bivalves having area.
(iii) Name two Indian horizon of megalodon and conus.
(iv) Define paleobotany and mention its significance.
(v) What is paleoecology?
(vi) Explain the present is the key to the past.
(vii) Draw a labeled sketch of two sedimentary structures.
(viii) Give bases for the classifying the sedimentary deposits.
(ix) Name two detrital sedimentary deposits of Gujarat.
(x) Name four calcareous deposits of chemical origin.
(xi) Mention two characteristics of deep-sea environments.
(xii) Explain briefly diagenesis of terrigenous sediments.