

B.Sc Sem.-5 Examination

CC 303

Geology

Time : 2-30 Hours]

November-2024

[Max. Marks : 70

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

Q-1 Explain morphological characters, geological time range and Indian horizon of typical terebratula fossil shell. (14)

OR

Q-1 (a) Draw a labeled sketch of typical dibranch fossil. (07)

(b) Geological distribution of bivalves and cephalopods. (07)

Q-2 Discuss multi- proxy evidence for an arid shift in climate with case studies. (14)

OR

Q-2 (a) Concept of uniformitarianism and its significance. (07)

(b) Relevance of geological and palaeoecological studies. (07)

Q-3 Discuss genesis, classification and types of sedimentary deposits. (14)

OR

Q-3 (a) Sedimentary structures with examples from Gujarat. (07)

(b) Genesis of Gujarat laterite and coal. (07)

Q-4 Write detail account on dynamics of fluvial, lacustrine and deep -sea 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 types of suture lines observed in mollusks with examples.

(ii) Write at least four types of dentitions in bivalve with examples.

(iii) Draw a labeled sketch of pallial sinus.

(iv) Define paleobotany and mention its importance.

(v) What is paleoecology?

(vi) Explain the significance of palaeoecological studies.

(vii) Explain near shore environments.

(viii) What is photic zone and intertidal zone?

(ix) Name the detrital sedimentary deposits of Kachchh and Rajasthan.

(x) Name four calcareous deposits of chemical origin.

(xi) Mention two characteristics of aeolian environments.

(xii) Give details of diagenesis of terrigenous sediments.
