

B.Sc. Semester-5 Examination

CC 303

Geology

Time : 2-30 Hours]

March-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 trigonia fossil shell. (14)

OR

Q-1 (a) Draw a labeled sketch of typical nautiloidea fossil shell (07)

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

Q-2 Discuss multi- proxy evidence for an arid shift in climate with case study. (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) Explain briefly sedimentary structures. (07)

(b) Describe genesis of laterite and coal. (07)

Q-4 Write detail account on dynamics of aeolian, fluvial 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 types of suture lines observed in mollusks.

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

(iii) Draw a labeled sketch of dibranch fossil shell.

(iv) Define paleobotany and mention its importance.

(v) What is the philosophy of paleoecology?

(vi) Explain the significance of palaeoecological studies.

(vii) Explain deep-sea environments.

(viii) What is photic zone and intertidal zone?

(ix) Name the detrital sedimentary deposits.

(x) Explain deposit feeders and vagile organism.

(xi) Mention two principles of paleoclimate analysis.

(xii) Explain briefly diagenesis of terrigenous sediments.