

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 (14) of typical trigonia fossil shell.

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 (14) environments.

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.