

B.Sc Semester-6 Examination**CC 308****Geology****Time : 2-30 Hours]****April-2024****[Max. Marks : 70**

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

Q-1. Explain petrology of Archaean rocks of Himalaya and describe Infra-Krol and Krol series. (14)

OR

Q-1. (a) Ordovician and Silurian of Himalaya. (07)

(b) Physical changes at the end of Dravidian era. (07)

Q-2. Write detailed notes on Megalodon limestones and Ceratites beds. (14)

OR

Q-2. (a) Dual facies of Tertiary deposits. (07)

(b) The paleontological interest of the Siwalik system. (07)

Q-3. Write explanatory note on the attitude of joints and joints found in sedimentary rocks with Indian localities. (14)

OR

Q-3. (a) Effects of fault on the out crop. (07)

(b) Classification of fault based on apparent movement of fault block and pitch of the net slip. (07)

Q-4. Discuss classification of fold based on position of axial planes and mode of occurrence. (14)

OR

Q-4. (a) Classification of fold based on behavior with depth. (07)

(b) Illustrations of thrusts in Himalaya. (07)

Q-5. **Attempt any seven questions out of twelve.** (14)

(i) Name Dharwar sequence of Shimla and NE Himalaya.

(ii) Provide stratigraphic sequence of Muth Quartzites with locality.

(iii) Give stratigraphic sequence of Cambrian of Salt Range.

(iv) What are khadar and flysch?

(v) Name the series found above Ranikot series in Eocene age in Sindh.

(vi) Mention locations of Indo-Gangetic Plains and its economic importance.

(vii) Name types of joints in igneous rocks and draw sketch of one type.

(viii) Mention causes and mechanism of fault.

(ix) What is rotational fault? Give one example.

(x) Draw a labelled sketch of chevron fold.

(xi) Which types of folds are found as per degree of compression?

(xii) Mention structural concepts of Aravalli Mountain ranges.