

M.Sc Semester-2 Examination

408

Geology

April-2024

Time : 2-30 Hours]

[Max. Marks : 70

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

Q-1. Explain changing concepts in stratigraphy and principles of classification. (14)

OR

Q-1. (a) Time units and time-rock units. (07)

(b) Preservation and net rates of accumulation in various basinal settings. (07)

Q-2. Describe classification of Mesozoic formations of India and its comparison with world stratigraphy. (14)

OR

Q-2. (a) Classification, lithology, and orogeny of lower Palaeozoic stratigraphy. (07)

(b) Climate, lithology, orogeny and life of Cainozoic stratigraphy. (07)

Q-3. Write explanatory note on the Carbon-tetrachloride and Stain acetate peel method for microfossils. (14)

OR

Q-3. (a) Foraminifer ecology. (07)

(b) Stratigraphical and environmental significance of Ostracoda. (07)

Q-4. Discuss morphological- preservational aspect classification of trace fossils. (14)

OR

Q-4. (a) Wall composition, structure and sculpture of spores and pollens. (07)

(b) Importance of trace fossils in sedimentology and stratigraphy. (07)

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

(i) Define sequence stratigraphy and cyclo-stratigraphy.

(ii) What are suite and member?

(iii) Define litho-demic unit and procaryote.

(iv) What you know about Sarcodina?

(v) Write name of division of blue-green algae.

(vi) Write details of climatic events of Palaeozoic.

(vii) Mention four lateral variations.

(viii) Give two examples of facies.

(ix) Major life forms of Palaeozoic.

(x) Give the domain of ichnological study from Kachchh.

(xi) What is palynology? Give examples from Gujarat.

(xii) Define ichnia catenaria and cubichnia