

This question paper contains 2 printed pages

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S. No. of question paper : 2384

Unique paper Code: 2191403

Name of the paper: Stratigraphy of India

Name of the course: B.Sc. (Hons.) Geology (Former FYUP)

Semester: IV

Duration: 3 Hours Maximum Marks: 75

F-4

(Write your roll No. on the top immediately on receipt of this question paper)

Answer any **five** questions

All questions carry equal marks

1. Discuss stratigraphic classification and tectonic framework of Dharwar craton with illustration. Why Dharwar craton is divided into two sub-craton?
2. Discuss evolution, tectonic framework and stratigraphy of Mesozoic successions of Kutch. Why the lower and middle part of the Mesozoic succession is shale and carbonate rich whereas upper part is siliciclastic dominated?
3. Discuss various criteria used to establish lithostratigraphic classification of continental flood basalt (CFB). What is the distinguish feature of individual lava flow? Compare and justify plume activity vs. rift related origin of Deccan Trap.
4. Comment on any two of the following:
 - a. Effect of relative sea-level fluctuation on sedimentation pattern
 - b. Evolution of Central India Tectonic Zone (CITZ)
 - c. Paleogeographic reconstruction of sedimentary basin
5. Describe stratigraphy and depositional environment of Gondwana Supergroup. Give reasons for restricted occurrence of Gondwana sediments in India. Why Gondwana succession have unequal occurrence of coal seams.

6. Write short notes on any two of the following:
 - a. Economic resources of Bastar craton
 - a. Evolution of life during Precambrian
 - b. Permian-Triassic boundary
7. Write notes on
 - a. Green house and Ice house periods on earth
 - b. Depositional environment of Vindhyan Supergroup
 - c. Define biostratigraphic zones with example from India.
8. What are molasses and its characteristic properties? Describe stratigraphic classification of Siwalik Supergroup. Explain implication of Siwalik fossils in biogeographic provinces of mammals and paleogeography of India.