

**19P151**

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Name: .....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2019**

(CUCSS PG)

**CC19P GEL1 C04 – STRATIGRAPHY AND INDIAN GEOLOGY**

(Applied Geology)

(2019 Admission Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Short answer type. Answer any *four* questions.

1. Describe Global Boundary Stratotype Sections and Points (GSSP) with an Indian example?
2. Earth magnetism and its measurable components.
3. Principles of pedostratigraphy.
4. Supracrustals of Kerala.
5. Cyclostratigraphy.
6. Saline series stratigraphic problem in brief.
7. Contribution of Hutton and Lyell in stratigraphic studies

**(4 x 2 = 8 Weightage)**

II. Short essay type. Answer any *four* questions.

8. Relate chronostratigraphy and geochronology.
9. Sequence stratigraphy.
10. Elaborate on stratigraphy and economic importance of Vindhyan super group.
11. Elaborate on the Phanerozoic stratigraphy of Indian subcontinent.
12. Representative diagram for the cross section of the tectonic components of Himalaya.
13. Flow differentiation criteria for Deccan Traps.
14. Paleontological criteria for the stratigraphic correlation.

**(4 x 3 = 12 Weightage)**

III. Essay type. Answer any *two* questions.

15. Explain how meteorite impact hypotheses become the prominent theory for explaining the end cretaceous extinction.
16. Explain the cratonic evolution of continents with special reference to Dharwar? Also comment on nature of tectonics in Archaean and Proterozoic.
17. Give an elaborate description of the stratigraphy of Cuddapah basins in India, based on nature of sedimentation, lithology and structure.
18. Differentiate between lithostratigraphy and Biostratigraphy.

**(2 x 5 = 10 Weightage)**

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