

**Ph.D. GEOLOGY
(PHDGY)**

00155

Term-End Examination

June, 2018

RGYE-109 : STRATIGRAPHY

Time : 3 hours

Maximum Marks : 100

Note : Answer any **five** questions. All questions carry equal marks.

1. What is stratigraphy ? Discuss in detail, litho, bio and chronostratigraphic units and their equivalence. 20
2. Describe the code of stratigraphic nomenclature for lithostratigraphy. 20
3. Give a detailed account of the stratigraphy of palaeozoic successions of the north-western Himalaya. 20
4. Describe the stratigraphy and depositional environment of the Siwalik Supergroup. Add a note on the importance of Siwalik fauna in reconstructing the mammalian biogeographic province and palaeogeography of India. 20

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5. Define the term 'Stratigraphic Correlation'. Discuss the methods and techniques used in stratigraphic correlation in detail. 20
6. What is palaeobiogeography ? Give a detailed account of the palaeobiogeography of the Indian plate during the Late Mesozoic to Early Cenozoic times. 20
7. Write short notes on any **two** of the following : 2×10=20
- (a) Absolute and Relative Dating
 - (b) Facies Concept in Stratigraphy
 - (c) Magnetostratigraphy
 - (d) Chemostratigraphy
8. Write short notes on any **two** of the following : 2×10=20
- (a) Standard Stratigraphic Scale
 - (b) Deccan Traps
 - (c) Palaeoclimate and Palaeoecology
 - (d) Vicariance and Dispersal
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