

25042

M.Sc. DEGREE EXAMINATION, APRIL 2018.

Geology

SECOND SEMESTER

Paper II — STRUCTURAL GEOLOGY AND GEOTECTONICS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Young's modulus.
2. Stress ellipsoid.
3. Conjugate joints.
4. Angular unconformity.
5. Lineation.
6. Strikeslip fault.
7. Triple junction.
8. Orogeny.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write an essay on factors controlling the behavior of the rocks..

Or

10. Discuss in detail about stress and strain analysis.

11. Give a detail account on classification of folds.

Or

12. Write an essay on recognition of faults in the field.

13. Briefly discuss structures in metamorphic rocks.

Or

14. Write an essay on geometric classification of plutonic igneous rocks.

15. Write an essay on evolutionary history of Himalayas.

Or

16. Discuss in detail about neotectonics and field evidences.

