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FINAL YEAR B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2005**Part III-Group VI-Geology****Paper IV-STRUCTURAL GEOLOGY AND GEOTECTONICS****(New Scheme from 2000 Admissions)**

Time : Three Hours

Maximum : 60 Marks

*Illustrate your answers with sketches if necessary.***I. Name the following :-**

1. Fold which is generally convex upwards.
2. Exposed part of the rock mass on the surface of the earth.
3. The spatial resolution of IRSIC-LISS imagery.
4. Preferred Orientation of the mineral grains is called
5. The deformation caused by stress
6. Amount of inclination, with respect to a horizontal plane measured in a vertical plane at right angles to the strike of the bedding.
7. Two or more sets of joint together constitute.
8. The angle subtended between fault plane and any vertical plane striking in the same direction.
9. Flat elevated portions of the earth, bounded by steep slopes.
10. Intrusive rock mass cutting across the structures of the pre-existing rocks of the country.

(10 × ½ = 5 marks)**II. Define the following.**

1. Attitude of the beds.
2. Outlier.
3. Peripheral faults.
4. Bedding joint.
5. Lamination.
6. Ninety degree east ridge.
7. Nappe.
8. Isostasy.
9. Chevron fold.
10. Polar wandering.

(10 × 1 = 10 marks)**III. Describe each of the following on a paragraph :-**

1. Remote sensing.
2. Graded bedding.

Turn over

3. Continental platform.
4. Hotspot.
5. Convergent plate.
6. Unconformity.
7. Lineation.
8. Palaeomagnetism.
9. Dome and Basin structure.
10. Rock deformation.

(10 × 2½ = 25 marks)

IV. Write an account on the primary sedimentary structures.

Or

Explain the origin, structure and classification of mountains.

(1 × 10 = 10 marks)

V. Write an essay on elements of aerial photographs and their interpretation.

Or

Write an essay on the classification of folds. Add an account on recognition of folds.

(1 × 10 = 10 marks)