

2022

1st Semester Examination

GEOGRAPHY

Paper : GEO 101

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Paper : 101.1

(Geotectonics)

Group - A

Answer any *two* of the following questions :

2×2=4

1. What is Courie Point?
2. State the implication of $Q_n \gg 1$.
3. What is Hubble's constant?
4. How torque is related to the genesis of magnetic property inside materials?

P.T.O.

Group - B

Answer any *two* of the following questions : $4 \times 2 = 8$

5. How does radioactivity help to find the dates of geological deposits?
6. 'Palaeomagnetism and plate tectonic movements are interwoven' — briefly explain this idea.
7. State the salient features of neotectonic movements seen in India.
8. Differentiate paramagnetism from ferromagnetism.

Group - C

Answer any *one* of the following questions : $8 \times 1 = 8$

9. What is remanent magnetism? Describe, in detail, about all types of remanent magnetism which are observed in geological formation.
10. Elucidate orogenesis in the light of plate tectonics with special reference to Andes mountain.

Paper : 101.2

(Geomorphology)

Group - A

Answer any *two* of the following questions : $2 \times 2 = 4$

1. Define active base level.

2. What is unloading stress?
3. What is cation exchange capacity?
4. Define repose angle.

Group - B

Answer any *two* of the following questions : 4×2=8

5. Justify the nature of scale dependency in process-form relation.
6. How does rheological property control velocity of substance?
7. Assess the importance of high-magnitude rare events in geomorphology.
8. Why is unpaired terrace called non-cyclic?

Group - C

Answer any *one* of the following questions : 8×1=8

9. Elucidate the models of drainage development with illustrations.
 10. Explain the mechanism of floodplain development.
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