

CSM—36/23
PART—II/PAPER—VI
GEOLOGY
PAPER—I

Candidate
must not
write on
this margin.

Time : 3 Hours

Full Marks : 250

*The question paper contains **18 (Eighteen)** questions
in **GROUP—A (12)** and **GROUP—B (06)** together.*

GROUP—A

*Candidates to attempt **10 (ten)** questions within word limit of **250**.
Each question carries **15** marks.*

1. What are radioactive elements and how are they useful in determining the age of the Earth?
2. What is volcano? Describe various types of volcanoes and volcanic products.
3. What are focus and epicentre of the earthquake? Describe the seismic zonation map of India.
4. What is plate tectonic? Explain the features formed by convergent plate movement in which one plate is continental and one is oceanic.
5. Describe in brief about the geomorphology of the Indian subcontinent.
6. Describe the application of remote sensing in geology.
7. Discuss the geomorphic cycle as proposed by Penck.
8. Describe the classification of folds.
9. Describe the sedimentary structures which are formed within the beds.
10. What is stress? Discuss various types of stress operating on rocks.

11. Describe the classification and mechanism of faults.
12. Write in detail about the behaviour of rocks under deformation condition.

**Candidate
must not
write on
this margin.**

GROUP—B

Candidates to attempt 05 (five) questions within word limit of 300.

Each question carries 20 marks.

13. What are microfossils? Explain their application in oil exploration.
14. Describe the morphology of Brachiopod with a neat diagram.
15. Discuss the upper Gondwana plant fossils and their importance.
16. Describe the Dharwar group of rocks and their economic importance.
17. Discuss various techniques for the exploration of groundwater.
18. Discuss the geological investigation of (i) dam and (ii) tunnel.

★ ★ ★