

CSM – 34/16
Geology
Paper – I

Time : 3 hours

Full Marks : 300

The figures in the right-hand margin indicate marks.

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and **three** of the remaining questions, selecting at least **one** from each Section.*

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SECTION – A

1. Answer any **three** of the following in about **200** words each : 20×3 = 60
- (a) Causes and effects of Earthquakes.
 - (b) Weathering and mass wasting
 - (c) Indian Remote Sensing Satellites
 - (d) Behaviour of minerals and rocks under deformation conditions

2. Write descriptive notes on the following :
- (a) Origin and interior of the Earth 30
 - (b) Plate tectonics and continental drift 30
3. Write notes on the following :
- (a) Geomorphology of Indian subcontinent 30
 - (b) Remote sensing and its applications in Geology 30
4. Give an account on the classification of folds. Add a note on the mechanics of folding. 40+20 = 60

SECTION – B

5. Answer any **three** of the following in about **200** words each : 20×3 = 60
- (a) Gondwana flora and Siwalik fauna
 - (b) Geology of Odisha
 - (c) Ground water exploration
 - (d) Causes and prevention of landslides
6. Write descriptive notes on the following :
- (a) Morphology of Brachiopoda 30
 - (b) Evolutionary trends in Equidae 30

7. (a) Discuss the cretaceous – Tertiary boundary problem. 30
- (b) Classify and describe the Gondwana Supergroup of rocks. 30
8. Write notes on the following :
- (a) Quality of ground water 30
- (b) Geological investigations for dams 30

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