

<b>CSM – 34/16</b>
<b>Geology</b>
<b>Paper – I</b>

*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.*

### **SECTION – A**

1. Answer any **three** of the following in about **200** words each :

$20 \times 3 = 60$

- (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 :  $20 \times 3 = 60$ 
  - (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



