

JL – 18/14

Geology

Paper – II

Time : 3 hours

Full Marks : 200

The figures in the right-hand margin indicate marks.

Answer all questions.

1. (i) Discuss the evolutionary changes in mammals in geological times. 20
- (ii) Write a note on the Shivalic vertebrate fauna. 10
- (iii) Discuss the evolutionary changes in molluscs in geological times. 10

OR

- (i) Describe, in detail, about the Godwana flora. 20
- (ii) Write a note on the evidence on the life in Precambrian. 10
- (iii) Use of microfossils in biostratigraphic correlation. 10

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(Turn over)

2. (i) Give the principles of stratigraphic correlation. 20
- (ii) Describe the Precambrian stratigraphy of Odisha. 20

OR

Write short notes on the following :

- (i) Jurassics of Kutch 10
- (ii) Cretaceous formations of Tiruchirapalli 10
- (iii) Tertiary formations of Assam 10
- (iv) Deccan Traps 10
3. Write notes on the following :
- (i) Classification of Indian coal 13
- (ii) Coal deposits of Eastern India 13
- (iii) Coal deposits of Tertiary period 14

OR

Write short notes on the following :

- (i) Bombay High 12
- (ii) Oil fields of Rajasthan and Gujarat 14
- (iii) Oil fields of Assam 14

4. Write brief notes on the following : 10×4 = 40

- (i) Late magmatic process
- (ii) Cavity filling
- (iii) Supergene enrichment
- (iv) Sedimentary exhalation (SEDEX)

OR

Write short notes on the following : 10×4 = 40

- (i) Chromite deposits of Odisha
- (ii) Kolar Gold
- (iii) Lead-zinc-copper deposits of Rajasthan
- (iv) Bauxite deposits of Odisha

5. Write notes on the following :

- (i) What are the preventive measures of floods ?
How will these measures help humans ?
Justify your statement in the light of the recent natural hazard (Phailin) in the coastal regions of Odisha and Andhra Pradesh. 20
- (ii) Global Warming 7
- (iii) Radioactive waste disposal 7
- (iv) Impact of Bauxite open cast mining 6

OR

Write brief notes on the following :

- (i) Classification of aquifers and groundwater quality and contamination 20
- (ii) Engineering properties of rocks 10
- (iii) Geological investigations of dam and reservoir 10

