Civil Services (Main) Examination, 2004

GEOLOGY

(Paper I)

Time Allowed : Three Hours **Maximum Marks : 300**

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

There are EIGHT questions divided in two Sections.
Candidate has to attempt FIVE questions in all.
Question Nos. 1 and 5 are compulsory and out of the remaining, any THREE are to be attempted choosing at least ONE question from each Section.
The number of marks carried by a question/part is indicated against it.
Wherever any assumptions are made for answering a question, they must be clearly indicated.
Word limit in questions, wherever specified, should be adhered to.

SECTION 'A'

1. Write in about 200 words on any three of the following: **20×3=60**

(a) 'Orogeny' and 'Epeirogeny.'

(b) Two major landforms.

(c) Indian Remote Sensing Satellites.

(d) Stress-strain relationship in elastic materials.

2. Discuss in detail the concept of 'Plate Tectonics'. Is it synonymous with 'Continental Drift'? **60**

3. Write about the following: **30×2=60**

(a) The basic concepts of Geomorphology.

(b) Applications of Remote Sensing in Geology.

4. Discuss the classification and mechanics of folds. Make neat sketches to illustrate your answer. **60**

SECTION 'B'

5. Answer any three of the following, each in about 200 words: **20×3=60**

(a) Preservation of fossils.

(b) Lithostratigraphic classification of Sedimentary rocks.

(c) Tectonic framework of India.

(d) Rocks as construction material.

6. Discuss the evolutionary trends in Hominidae. **60**

7. Discuss the following: **30×2=60**

(a) Economic importance of Phanerozoic rocks of India.

(b) Paleogeography of the Indian Subcontinent.

8. Write about the following:

English version compiled from published transcriptions and cross-checked across sources; not a facsimile of the official UPSC question paper.

Optional Province · optionalprovince.com

30×2=60

(a) Management of groundwater.

(b) Geological investigations of a Dam site.

Optional Province · optionalprovince.com