

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.

All questions carry equal marks.

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. Explain any three of the following in about 200 words each:
 - (a) Sea-floor spreading – a preamble to the plate tectonic theory
 - (b) Delineate the volcanic belts of the earth in the world outline
 - (c) Karst geomorphic features
 - (d) Repetition and omission of strata due to structures and other processes.
2. Describe any six common linear formed by deformation. Describe briefly their geometry and mode of formation.
3. Describe the landforms of the arid regions.
4. Write brief notes on the following:
 - (a) Distinguishing characters of a bedding plane from a joint plane
 - (b) Mohorovicic discontinuity
 - (c) Ox-bow lakes
 - (d) Drainage patterns in metamorphic terrains
 - (e) Coves and bays

SECTION 'B'

5. Answer any three of the following in about 200 words each:
 - (a) Banded Gneissic Complex and its basement character
 - (b) Siwalik Fauna
 - (c) Bagh Beds
 - (d) Age of Deccan Traps
6. Draw a large neat labelled diagram of a gastropod shell and describe its morphology. Also give its classification and distribution in time.
7. Write notes on the following:
 - (a) Dharwar Super Group of rocks
 - (b) Stratigraphy of the Iron-Ore, Series of Bihar and Orissa
8. Write explanatory notes on:

- (a)** Methods of preservation of fossils
- (b)** Criteria by which palaeo-environmental conditions of deposition of sediments can be recognised
- (c)** Pleistocene glaciation