

GEOLOGY

(Paper II)

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. Write notes on any three of the following in about 200 words each:
 - (a) Laue diffraction pattern
 - (b) Charnockite
 - (c) Optic-orientation in crystals
 - (d) Co-ordination number
2. Taking plagioclase feldspars as an example, illustrate the phenomenon of solid solution.
3. What are "Interference Figures"? Describe them.
4. Briefly describe textures found in Igneous Rocks.

SECTION 'B'

5. Write notes on any three of the following in about 200 words each:
 - (a) Placer deposits
 - (b) Gangue minerals
 - (c) Strategic minerals
 - (d) Groundwater recharge
6. Give an account of the mica deposits of India.
7. Explain the use of aerial photos in geological investigations.
8. Give an account of the oil-fields of India.