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Code No.: 11(II) Roll No.

O(CCEM)9

GEOLOGY

Paper: II

Time Allowed: 3 hours]

[Maximum Marks: 300

Note: (i) Answers must be written in English.

- (ii) Number of marks carried by each question are indicated at the end of the question.
- (iii) Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.
- (iv) The answer to each question or part thereof should begin on a fresh page.
- (v) Your answers should be precise and coherent.
- (iv) Candidates should attempt five questions only.

 Candidates must answer at least one question from each Section.

P. T. O.

11(II)

SECTION - A

1. Describe in short seven crystal systems.

60

2. Write short notes on any two of the following:

 $30 \times 2 = 60$

- (a) Enantiomorphic classes
- (b) Biere fringence
- (c) Penetrating twinning
- Describe physical, chemical and optical properties of feldspar group of minerals.

SECTION - B

- Write an essay on the textures and structures of intrusive igneous rocks.
- 5. Write short notes on any two of the following:

 $30 \times 2 = 60$

- (a) Magmatic differentiation,
- (b) Eutectic crystallization,
- (c) Calc-alkaline magma.

(2)

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- 2	- 1	- 6			- 1
- 4	- 3	-	S.J	ш	- 2

6. Write short notes on any *two* of the following:

 $30 \times 2 = 60$

- (a) Magmatism in relation to plate tectonies,
 - (b) Perthite,
 - (c) Subduction related magmatism.

SECTION - C

7. Give the classification of sandstone.

60

8. Write short notes on any two of the following:

 $30 \times 2 = 60$

- (a) Arkose
- (b) Graywacke
- (c) Heavy minerals
- 9. Write short notes on any two of the following:

 $30 \times 2 = 60$

- (a) Green-schist facies,
- (b) Relic series,
- (c) Contact metamorphism.

(3)

P. T. O.

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SECTION - D

10. Write short notes on any two of the following:

 $30 \times 2 = 60$

- (a) Oil and natural gas deposits in India.
- (b) Copper deposits in India,
- (c) National mineral policy.
- Write an essay on the fluvial geomorphic processes and their control over landforms and groundwater development.
- 12. Comment on flight planning and control and bring out the difference between the low obliques and high obliques. Describe the geometrical properties of tilted photographs.60

(4)