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Unit-IV

4. (A) Mention the names of any four radioactive minerals and their chemical composition. 2
- (B) What are the different fractions of petroleum ? 2
- (C) Write a note on the origin and migration of oil and gas. 4

Or

Write a note on nuclear power stations of India.

- (D) Describe the geology and distribution of productive oil fields of India. 12

Or

Describe the mode of occurrence association and distribution of atomic mineral deposits of India.



Roll No. ....

Total No. of Sections : 4

Total No. of Printed Pages : 4

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III Semester Examination

M.Sc.

GEOLOGY

Paper II

[Economic Geology]

Time : Three Hours ]

[ Maximum Marks : 80

[ Min. Passing Marks : 16

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*Note : Part A and B of each question in each unit consists of Very Short Answer Type Questions which are to be answered in one or two sentences. Part C (Short Answer Type) of each question will be answered 200-250 words. Part D (Long Answer Type) of each question should be answered within the word limit 400-450.*

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Unit-I

1. (A) Give two examples of ore deposits associated with convergent plate margins. 2
- (B) What is paragenesis of ores ? 2

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- (C) Write a note on the concept of ore bearing fluids, their origin and migration. 4

**Or**

Explain wall rock alteration in brief.

- (D) What is a fluid inclusion ? Discuss the principle and applications of fluid inclusion studies. 12

**Or**

Describe old deposits related to various plate tectonic settings.

**Unit-II**

2. (A) What is greisen ? 2
- (B) Write the names of any four minerals of economic importance which occur in pegmatites. 2
- (C) What are stratiform and stubborn deposits ? Explain with examples. 4

**Or**

Write a note on ores of metamorphic origin.

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- (D) Describe the ores related to weathering processes. 12

**Or**

Describe the orthomagmatic ores of mafic ultramafic association.

**Unit-III**

3. (A) What is coal gasification ? 2
- (B) What is coal bed methane ? 2
- (C) Write a note on macroscopic ingredients of coal. 4

**Or**

Explain proximate and ultimate analysis of coal.

- (D) What is kerogen ? Describe the process of formation of kerogen and classification of kerogen. 12

**Or**

Describe various coal fields of India.