

Model Question Paper SET 3
Paper : SEC-2 (BASICS OF GEOCHEMISTRY)
Subject : Geology

Full Marks: 75

Time: 3 hours

Group A
(Short answer-type compulsory questions)

Q1. Fill in the blanks: [5x1=5]

- a)is the most abundant element in the earth's crust.
- b) an REE element.
- c) Coordination number of Si in SiO_4 is.....
- d) Quartz, Tridymite and Cristobalite areof each other.
- e) Albite and Anorthite areof each other.

Q2. Discuss types of chemical bonds. [5]

Q3. Define Major, minor and trace elements in igneous rock. [5]

Group B [4 X 15]
Answer any four
(Subjective/ Descriptive questions)

Q4. Write a note on Meteorites and its composition.

Q5. Which are the principal elements of interest in stable isotope geochemistry. Discuss the application of Isotope Geochemistry.

Q6. Discuss geochemical evolution of Earth with the help of models.

Q7. Discuss about the specific patterns in the properties of chemical elements present in the periodic table.

Q8. Discuss about the origin of universe and our planet Earth.

Q8. Discuss about the geochemical cycles in the planet Earth.

Q9. Write short note on any 3 of the following:

- i. Polymorphism
- ii. Entropy
- iii. Enthalpy
- iv. Chemical bonds
- v. Laws of thermodynamics

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