

Model Question Paper SET1
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.
- b) is the most abundant metal in the earth's crust.
- c) weakest chemical bond is.....
- d) Kyanite , Silimanite and Andalusite are.....of each other.
- e) Quartz, Tridymite and Cristobalite areof each other.

Q2. Describe Goldschmidt's geochemical classification of elements. [5]

Q3. Discuss about the origin of universe and our planet Earth. [5]

Group B [4 X 15]

Answer any four

(Subjective/ Descriptive questions)

Q4. Which are the principal elements of interest in stable isotope geochemistry. Discuss the application of Isotope Geochemistry.

Q5. what do you understand by radioactive isotope. Discuss the application of Radioactive isotope geochemistry.

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

Q7. Discuss about the geochemical cycles in the planet Earth.

Q8. Write a note on geological evidence for earlier colloids;

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

- i. Isomorphism
- ii. Oddo-harkins rule
- iii. Chondrites
- iv. Coordination number
- v. Chemical bonds

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