

Model Question Paper SET1
Paper : MJ9 (ECONOMIC AND MINING GEOLOGY)
Subject : Geology

Full Marks: 75

Time: 3 hours

Group A

(Short answer-type compulsory questions)

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

- a) _____ is commonly used in the manufacture of fertilizers
- b) _____ and thorium are important atomic fuel minerals
- c) The principal ore mineral of iron in India is _____
- d) The unwanted material associated with an ore is called _____
- e) Ore minerals containing metals are generally called _____ minerals

Q2. Describe the magmatic process of ore formation with suitable examples [5]

Q3. Discuss Mining hazards and safety measures. [5]

Group B [4 X 15]

Answer any four

(Subjective/ Descriptive questions)

Q4. Define ore, ore mineral and gangue. Explain the characteristics of an economic ore deposit

Q5. Explain the hydrothermal process of ore formation and classify hydrothermal deposits.

Q6. Describe the occurrence, uses and distribution of iron ore in India

Q7. Describe the minerals used in fertilizer industries

Q8. Explain any 3 underground mining methods.

Q9. Write the petrographic characteristic of any 3 of the following rocks:

- i. Refractory minerals
- ii. Critical minerals
- iii. Tenor of ore
- iv. Strategic minerals
- v. atomic fuels

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