

Model Question Paper SET1
Paper : MJ6 (FUNDAMENTALS OF PETROLOGY)
Subject : Geology

Full Marks: 75

Time: 3 hours

Group A

(Short answer-type compulsory questions)

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

- a)rocks are formed by consolidation of magma or lava.
- b)magma type contain 45-55 wt% SiO₂
- c) Sandstone is mostly composed of (in mm) size particle.
- d) The original rock that has under gone metamorphism is called.....
- e) . The new mineral that characterizes any particular zone is termed asminerals.

Q2. Write a note on magma and its types. [5]

Q3. Describe Diagenesis. [5]

Group B [4 X 15]

Answer any four
(Subjective/ Descriptive questions)

Q4. Discuss Bowen's reaction series.

Q5. Describe the different types of igneous textures.

Q6. What is sedimentary rock? Classify sedimentary rocks into various classes and give a brief description of each class.

Q7. What are the various types of sedimentary structures explain with well and labelled diagram.

Q8. Discuss the concept of metamorphic zone and index minerals in details.

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

- i. Quartz Biotite Schists
- ii. Granite Gneiss
- iii. Granite
- iv. Limestone
- v. Basalt

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