

Parvatibai Chowgule College of Arts and Science
Autonomous

Repeat B.Sc. Semester End Examination, January 2022

Semester : I

Subject : Geology

Title : Elementary Petrology (Core)

Duration : 2 Hours

Max. Marks: 45

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- Instructions:** 1. All questions are compulsory.
2. Figures to the right indicate maximum marks allotted.
3. Answers to the main question must begin on a fresh page.
4. Answers must be relevant to the questions.
5. Draw neat labeled diagrams wherever essential.
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Q I. Answer ANY THREE from the following: **(09)**

- a. Mention the textures associated with the rock Dolerite.
- b. Mention the lower and upper limits of metamorphism.
- c. Differentiate between clastic and non-clastic rocks.
- d. Mention the characteristics of granitic magmas.

Q II. Answer ANY TWO from the following: **(12)**

- a. Differentiate between intrusive and extrusive igneous rocks.
- b. Discuss continental environments for deposition of sediments.
- c. Discuss foliated textures associated with metamorphic rocks.

Q III. Answer ANY TWO from the following: **(12)**

- a. Discuss the mineralogical classification of igneous rocks.
- b. Discussing metamorphic grades, stress on Index minerals
- c. Elaborate on chemical weathering of rocks.

Q IV. Answer ANY ONE from the following:

- A. Collate the Bowens Reaction Series with the associated rocks types at differing temperature pressure conditions. **(12)**

OR

- B. i. Explain the significance of protolith in metamorphic rocks **(06)**
ii. Discuss classification of sedimentary rocks based on grain size. **(06)**
