

**B. Sc. Second Year Science 2020-2021**  
**Paper-II: PETROLOGY**

**Time: 3 hrs**

**MM 50**

**UNIT-I**

Introduction to Petrology. Igneous rocks: Forms, structures, textures and microstructures. Composition of magma, Classification of igneous rocks.

**UNIT-II**

Processes of differentiation, gaseous transfer within liquid; immiscibility, and assimilation. Description of the following rock forming families : granite - granodiorite, syenite, diorite, gabbro, feldspathoidal - syenite, ultrabasic and ultramafic rocks.

**UNIT-III**

Metamorphic rocks: Definitions, controls of metamorphism. Metamorphic processes and reactions. Types of metamorphism - contact, cataclastic, regional and ocean floor metamorphism.

**UNIT-IV**

Texture and structure of metamorphic rocks. Nomenclature and description of important metamorphic rocks. Metasomatism, anatexis, and migmatization. Sedimentary rocks: Processes of formation of sediments, diagenesis. Textures of sedimentary rocks.

**UNIT-V**

Major sedimentary structures - primary, secondary and biogenetic and their significance. Classification of sedimentary rocks. Type of arenites, carbonate rocks, and argillites.

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**Checked and Approved**  
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(Dr. Maya Chaudhary)

**Checked and Approved**  
(-sd)  
Dr. Harish Kapasya

**Checked and Approved**  
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Mr. Subhash Janagal