

No. of Printed Pages : 1

Sl. No.

**21MNP1C2L**

**M.Tech. I Semester Degree Examination, April/May - 2023**

**MINERAL PROCESSING**

**Petrology**

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** of the following with question No. 1 **Compulsory**. Each question carries **equal** marks.

- |    |     |   |    |
|----|-----|---|----|
| 1. | (a) | Explain Bowen's series in detail.   | 10 |
|    | (b) | With a neat sketch explain Magmatic chamber and Lava.                     | 4  |
| 2. | (a) | Illustrate the layers of the earth.                                       | 8  |
|    | (b) | Explain Nebular hypothesis with relevant diagram.                         | 6  |
| 3. | (a) | Enumerate the different forms of intrusive bodies.                        | 8  |
|    | (b) | Summarize volcanic eruption.  | 6  |
| 4. | (a) | Structure of igneous rocks.   | 8  |
|    | (b) | Types of Igneous rocks based on depth of formation.                       | 6  |
| 5. | (a) | Define metamorphism and explain the agents of metamorphism.               | 8  |
|    | (b) | Write a note on structure of metamorphic rocks.                           | 6  |
| 6. | (a) | Define weathering. Explain the factors affecting the sedimentary process. | 8  |
|    | (b) | Textures of sedimentary rocks.  | 6  |
| 7. | (a) | Write a note on the age of the earth.                                     | 8  |
|    | (b) | Write a note on Flood basalts.  | 6  |
| 8. | (a) | Primary structures of Sedimentary rocks.                                  | 8  |
|    | (b) | Describe facies of metamorphism.  | 6  |

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