



GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM.

I B.Sc., GEOLOGY –(2016-17)

SECOND SEMESTER

Model Question Paper-1 for Module II

(Dynamic Geology, Mineralogy and Optical Mineralogy)

Time: 3 Hours

Max.Marks: 60

PART- A

Answer all the Questions. *Each Question carries 10 marks*

4 x 8 = 32M

1. Explain different types of Silicate Structures with suitable sketches and mineral examples

OR

Explain different physical properties of minerals

2. Describe the Pyroxene group of Minerals.

OR

Describe physical & chemical properties and mode of occurrence of Amphiboles

3. Describe physical & chemical properties and mode of occurrence of Feldspars

OR

Describe the Quartz group of Minerals.

4. What are different optical properties of minerals? Explain.

OR

Explain different optical properties studied under Microscope

PART- B

Answer any Five Questions. *Each Question carries 4 marks*

5 x 4 = 20M

5. Rock forming and ore forming minerals
6. Isomorphism and polymorphism.
7. Name the feldspathoid minerals with chemical compositions
8. Snell's law
9. Parts of microscope
10. Define Pyro electricity and Piezo electricity.
11. Moh's Hardness Scale
12. Define Uniaxial and Biaxial minerals

PART- C

Answer all the Questions. *Each Question carries 2 marks*

4 x 2 = 8 M

13. Define Mineral?
14. Name any 4 mica minerals
15. Critical angle
16. Interference colours