



CENTRAL TRIBAL UNIVERSITY OF ANDHRA PRADESH

DEPARTMENT OF GEOLOGY

SEMESTER -II

I- MID Term Examinations-2024

Name of the Programme : B.Sc., Geology

Name of the Subject : Crystallography and Mineralogy

Date: 21/03/2024

Time: 10:00-11:00AM

Max. Marks :20

4111/27  
30  
28  
20

Part-A

Answer all the questions. Each Carries 1mark

5X1=5M

1. Define mineral

2. Olivine mineral belongs to \_\_\_\_\_ silicate structure

3. General chemical formula of Garnet mineral Group \_\_\_\_\_

4. Give the mineral for hardness 6 on Moh's Hardness scale \_\_\_\_\_

5. Give an example mineral for ductile and sectile property \_\_\_\_\_

Part-B

Answer either A or B short answer question. Question carries 5marks

1x5=5M

6. A. Write a short note on the Bowen's Reaction Principle.

(Or)

B. Define and differentiate isotropic and anisotropic minerals

Part-C

Answer either A or B long answer question. Question carries 10 marks

1x10=10M

7. A. Write in detail about the classification of silicate minerals with neat sketches.

(Or)

B. Define optical mineralogy. Describe the optical properties of minerals and their significance