B.Sc., DEGREE EXAMINATION
SECOND YEAR - THIRD SEMESTER
PART-II :: GEOLOGY
PAPER-III: IGNEOUS Petrology and Sedimentology

TIME : 3 Hours. Maximum Marks: 75

SECTION - A
25 Marks.

1. Define rock. Explain the classification of Rocks.
2. Explain the structures of Igneous Rocks.
3. Write a short note on the following
   a) Basalt   b) Pyroxynie
4. Explain the composition of the Magma.
5. Describe the C IPW classification of Igneous rocks.
6. Explain the source of mechanical sediments.
7. Explain the carbonaceous Rocks.
8. Explain the stratification.
SECTION - B

ANSWER ALL THE FOLLOWING QUESTIONS. (5 X 10 = 50M)

9. a) Discuss the distinguish features of Igneous and Sedimentary Rocks.

b) OR

Explain briefly the forms of Intrusive Igneous Rocks.

10. a) Explain the textures of Igneous Rocks.

b) OR

Write an essay on Tabular classification of Igneous rocks (G.W.Tyrell)

11. a) Explain the Bowen’s Reaction Principle.

b) OR

Describe the Crystallisation of Binary Magma

12. a) Write an essay on structures of Sedimentary Rocks.

b) OR

Explain the source of chemical sediments.


b) OR

Write Short notes on the following:

a) Conglomerate  b) Shale

c) Sandstone  d) Lime stone
B.Sc., DEGREE EXAMINATION
SECOND YEAR - IV SEMESTER

PART-II :: GEOLOGY
PAPER - IV: Metamorphic Petrology and Structural Geology

TIME : 3 Hours. Maximum Marks: 75

SECTION - A

Short Answer Questions.

ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS. Each question 5 marks.

1. Define metamorphism.
   మెటమాఫోర్మిషన్

2. Marble
   మార్బులెట్

3. Khondalite
   కొండాలిట్

4. Dynamo thermal metamorphism
   డినామిక్స్ థెర్మల్ మెటమాఫోర్మిషన్

5. Define structural Geology.
   స్ట్రౌక్రియల్ జెయోలజీ

6. Dip - strike
   డిప్ - స్ట్రైక్

7. Primary structures.
   సాధారణ సంపాదాలు

8. Net slip
   నెట్ స్లిప్

25 Marks.
SECTION - B

50 Marks.

ANSWER ALL THE FOLLOWING QUESTIONS. (5 X 10 = 50M)

(Essay type questions)

9. a) Write an essay on agents and kinds of metamorphism.

OR

b) Describe various textures of metamorphic rocks.

10. a) Write an essay on the classification of metamorphic rocks.

OR

b) Write about thermal metamorphism of argillaceous and arkosic rocks.

11. a) What are the aims and objectives of structural Geology.

OR

b) Write an essay on classification of folds.

12. a) Write an essay on classification of joints.

b) How faults are recognised in the field.

13. a) Enumerate various types of unconformities.

OR

b) Distinguish the faults from unconformities.