



Government College (Autonomous), Rajamahendravaram

(Affiliated to Adikavi Nannaya University)

II B.Sc., GEOLOGY 2018-19

THIRD SEMESTER

Model Question Paper

Module III : PETROLOGY (Igneous, Sedimentary & Metamorphic)

Time:3 Hours

Max.Marks:60

SECTION- A

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

4 x 8 = 32M

- 1) Describe the mode of formation of three major types of rocks and give their distinguishing characters.

OR

Describe the forms of Igneous rocks with neat diagrams.

- 2) Write an Essay on the Tyrrel's Classification of Igneous Rocks

OR

Describe the Mechanical Structures of Sedimentary rocks

- 3) Write an essay on the Classification of Sedimentary Rocks.

OR

- 4) Define Metamorphism. Describe the Zones of Metamorphism.

OR

Enumerate various types of Metamorphism

SECTION- B

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

5 x 4 = 20M

1. What are scoriaceous and cellulose structures?
2. What are reaction rims and corona structures?
3. Define Fractional crystallization.
4. Define lithification and diagenesis.
5. Graded bedding.
6. Bauxite and laterite.
7. Palingenesis
8. Foliation and Lineation



SECTION- C

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

4 x2 = 8 M

9. What is Graphic texture?
10. What are symmetrical and asymmetrical ripples?
11. What is Gauno?
12. Crystalloblastic texture.





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Practical Model Question Paper

Module III : PETROLOGY (Igneous, Sedimentary & Metamorphic)

Megascopic study of rocks (Igneous 2 + Sedimentary 2 + Metamorphic2) _____ 6 X 4=24

Microscopic study of rocks _____ 3 X 5=15

Record _____ 11

50 Marks
