



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 4th Semester Examination, 2021

CC8-GEOLOGY

METAMORPHIC PETROLOGY

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any four questions

10×4 = 40

1. Describe the metamorphism of pelitic rocks in different *P-T* conditions mentioning the mineral changes, key reactions, and textural changes. 10
2. How does metamorphic rocks form? How does metamorphism related with present day tectonic framework, explain with relevant diagrams. 3+7
3. Explain briefly with the help of a suitable diagram, the concept of Metamorphic facies and its various characteristics. What is the inter-relationship between Metamorphic facies, Metamorphic zone and Metamorphic grade? 6+4
4. What do you understand about the term Geothermobarometry? Briefly describe the tectonic implication of different *P-T-t* paths. 5+5
5. Describe the role played by fluids in metamorphism. What is Metamorphic facies series? 5+5

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