



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Question Paper**

**B.Sc. Honours Examinations 2022**

(Under CBCS Pattern)

**Semester - IV**

**Subject : GEOLOGY**

**Paper : C 8-T**

**Metamorphic Petrology**

**Full Marks : 40**

**Time : 2 Hours**

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

Answer any **four** of the following questions :

5×4=20

1. Write a short note on contact metamorphism.
2. Discuss about role of fluid in metamorphism.
3. Write the relation between grade, zone and facies in metamorphic petrology.
4. Write a note on paired metamorphic belt.
5. Describe pre, syn and post kinematic structures with proper diagram.
6. Write a short note on devolatilization reaction.

P.T.O.

2. Answer any *two* of the following questions : 10×2=20

1. Describe elaborately the metamorphism of mafic rock in intermediate pressure-temperature condition. 10
2. (a) Write a note on eclogite facies. 5  
(b) Write a note on solid net transfer reaction. 5
3. (a) Write a brief note on ACF diagram. 6  
(b) Describe about ocean floor metamorphism. 4
4. (a) Write a note on P-T-t path. 5  
(b) Discuss about the relationship between metamorphism and tectonics. 5

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