

(4234)

2009-2010  
B.Sc. (Hons.) (PART – III) EXAMINATION  
(GEOLOGY)  
SEDIMENTARY & METAMORPHIC PETROLOGY  
(GL-317)

Maximum Marks: 40

Duration: Three Hours

Note. Answer all questions.

1. Write short notes on any two of the following:- (07)
  - (a) Zingg's and Folk's shape classes.
  - (b) Chemistry of weathering processes.
  - (c) Basic ideas about depositional environments and their classification.
2. Discuss diagenesis of terrigenous sediments. (07)
- OR
- 2' Describe heavy minerals and their petrogenetic significance.
3. Briefly describe classification and origin of carbonate rocks with special reference to Folk's classification. (06)
4. Write notes on the following:- (07)
  - (a) Relict series/Palimpsest series.
  - (b) Gneissose structures.
5. Discuss in brief the relationship between metamorphism and plate tectonics. (07)
- OR
- 5' Write detailed note on the following:-
  - (a) Isograd mapping
  - (b) Rosenbusch's zones
6. Describe the contact metamorphism of pelitic rock, with special reference to "Dalradian Schist" belt of Scotland. (06)
- OR
- 6' Write short notes on the following
  - (a) Rieke's principle
  - (b) Charnockites

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