

Attempt any three questions from section –I

- Q - 1 Describe texture of sedimentary rocks as per particle size, shape of grains and packing of grains. [14]
- Q - 2 (i) Ignimbrites and base surge deposits. [07]
(ii) Folk's classification of limestone. [07]
- Q - 3 Write detailed note on erosional sedimentary structures and Biogenic sedimentary structures. [14]
- Q - 4 (i) Write explanatory note: Glacial sedimentary system. [07]
(ii) Continental Shelf environment. [07]
- Q - 5 Describe Siliceous and Carbonate cementation in sandstone. [14]
- Q - 6 (i) Interpretation of limestone cement. [07]
(ii) Diagenesis of clay minerals and mudstone. [07]
- Q - 7 Explain Basin in compressional and extensional settings. [14]
- Q - 8 (i) Geosynclinal concept in sedimentation. [07]
(ii) Write explanatory note: Sandstone composition and tectonic control. [07]
- Q - 9 **Answer any eight of the following short questions.** [08]
(i) Define texturally super-mature sandstone.
(ii) Give names of diagenetic derivatives of pyroclastic deposits.
(iii) Define orthoquartzite.
(iv) Which type of deposits is formed due to rock falls on continental slopes? Where?
(v) Draw a diagram of parting lineation.
(vi) Draw diagrams of flute cast and scour & fill structure.
(vii) Define geosyncline.
(viii) Define sedimentary cycle.
(ix) Define sedimentary rhythm.
(x) What are the reasons for subsidence of sedimentary basins?
(xi) Define eugeosyncline.
(xii) What is the rate of sedimentation in miogeosyncline?