

Instructions: Draw neat diagrams wherever necessary.
Write proper answer number.

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- Q-1 Describe the types, origin and composition of magma. [10]
OR
- Q-1 (a) Bowen reaction series. [05]
(b) Crystallisation of Uni-component magma. [05]
- Q-2 Discuss the phase equilibrium in two component silicate system. [10]
OR
- Q-2 (a) Hatch scheme of classification. [05]
(b) Poikilitic textures. [05]
- Q-3 Explain the classifications of limestones. [10]
OR
- Q-3 (a) Carbonaceous deposits. [05]
(b) Groove marks and impact marks. [05]
- Q-4 Write a note on diagenesis of mudstones and sandstones. [10]
OR
- Q-4 (a) Terrestrial environments. [05]
(b) Types of sedimentary facies. [05]
- Q-5 **Attempt any ten out of twelve.** [10]
(i) Define polysilicate minerals.
(ii) Name any two undersaturated minerals.
(iii) What is devitrification?
(iv) State one principle of thermodynamics.
(v) What is rock association?
(vi) Define holohyaline texture.
(vii) Define allochthonous sediments.
(viii) What is ortho-conglomerate?
(ix) Name post-depositional sedimentary structures.
(x) Define speleology.
(xi) What abyssal environment?
(xii) What is provenance?

