

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

- Q-1. Explain origin of the universe and Binary star hypothesis. [10]
- OR
- Q-1. (a) Evolution of the solar system. [05]
(b) Major branches of geology. [05]
- Q-2. Explain chemical classification of minerals and specific gravity of minerals. [10]
- OR
- Q-2. (a) Hardness in minerals with examples. [05]
(b) Physical properties of minerals depending on light. [05]
- Q-3. Write explanatory notes on mantle and core. [10]
- OR
- Q-3. (a) Convection in the earth and magnetic field. [05]
(b) Main concepts of age of the earth. [05]
- Q-4. Describe five types of lake with suitable examples. [10]
- OR
- Q-4. (a) Weathering process. [05]
(b) Fluvioglacial deposits. [05]
- Q-5. **Attempt any ten out of twelve.** [10]
- (i) Define nebula.
(ii) Mention shape and size of the earth.
(iii) Name two inner planets of solar system.
(iv) Name two ore with its chemical composition.
(v) Which forms are represented by amethyst and chromite?
(vi) Define mineralogy.
(vii) Name two discontinuities within the earth.
(viii) Give the half-life period of thorium.
(ix) What is radioactivity?
(x) What you know about loess?
(xi) Draw a sketch of meandering of the river.
(xii) What is drumlin?