Q. No. 2. Differentiate between weathering, erosion and transportation. Elaborate the various agents and types of weathering. (20)

Q. No. 3. What are lithostratigraphic and chronostratigraphic unit? Discuss the various laws of stratigraphy. (20)

Q. No. 4. Explain isomorphism and polymorphism through examples. Give a detailed account of classification of silicate minerals. (20)

Q. No. 5. Differentiate between lineation and foliation. Discuss various structural controls on the mechanical properties of materials. (20)

Q. No. 6. Differentiate between eustatic and relative sea level curve. Discuss the relationship between eustacy, accommodation space and sedimentation. (20)

Q. No. 7. Differentiate between hydrocarbon source and reservoir rocks. Elaborate the various trapping mechanism of hydrocarbons. (20)

Q. No. 8. Write short notes on any TWO of the following: (10 each) (20)
   (a) Coal rank and coal series.
   (b) Geological controls on the selection of mega dam sites.
   (c) Occurrences of Radioactive deposits in Pakistan.

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