

Con. 6564-13.

(2 Hours)

GS-6393**[Total Marks : 100**

- N.B. :** (1) Question No. 1 is **compulsory**.
 (2) Solve any **four** questions from **remaining**.
 (3) **Figures** to the **right** indicate **full marks**.
 (4) Draw the diagrams wherever **necessary**.

- Q1 (a) Define in one sentence. 10
 (i) Mantle (ii) Epicenter (iii) Talus slope (iv) Ultrabasic rock
 (v) Exfoliation (vi) Aquifuge (vii) Creep (viii) Scoria
 (ix) Streak (x) Hade
- (b) Write the physical properties of the following minerals. 05
 (i) Orthoclase feldspar (ii) Muscovite mica (iii) Galena
 (iv) Serpentine (v) Rose Quartz
- (c) Draw and label the following. 05
 (i) Crag and Tail (ii) Seismogram (iii) Alluvial cone and fan
 (iv) Driencenters (v) Batholith
- Q2 (a) Discuss about the various textures of Igneous rocks. 10
 (b) How do you explain the texture of Sedimentary rock ? 10
- Q3 (a) Describe in detail the geological action of wind with land structures. 10
 (b) Explain various types of fault. 10
- Q4 (a) What is Eparchean Unconformity? 10
 Write a short essay on Deccan Trap System
 (b) What is core drilling? Discuss all the terms related to it. 10
- Q5 (a) What is cone of depression? 05
 (b) Write any three types of springs? 05
 (c) Discuss various favorable geological structures for dam construction. 10
- Q6 Distinguish between : (any four) 4x5
 (i) Crater and Caldera
 (ii) Overturned and Recumbent fold
 (iii) Exfoliation and Nivation
 (iv) Conglomerate and Breccia
 (v) Dynamic and Dynamothermal metamorphism
- Q7 Write short notes on : (any four) 4x5
 (i) Cirque
 (ii) Drumlins
 (iii) Perched water table
 (iv) Lopolith
 (v) Ripple marks
 (vi) Angular unconformity
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