[Time : 3 Hours] [Total Marks : 80]

N.B. 1. Question No. **1** is **compulsory**
2. Attempt any **Three** questions out of remaining **Five** questions.
3. Draw neat **labelled diagrams** wherever necessary.
4. All the parts of a question should be **grouped together**.
5. Figures to the **right** indicate marks

Q.1a	Write the identifying properties and economic use of the following minerals-	5
(i)	Rosy quartz	
(ii)	Muscovite	
(iii)	Talc	
(iv)	Galena	
(v)	Gypsum	
Q.1b	Define the following terms-	5
(i)	Exfoliation	
(ii)	Talus slope	
(iii)	Mantle	
(iv)	Yardang	
(v)	Magma	
Q.1c	Answer the following -	5
(i)	What is engineering Geology?	
(ii)	What is amygdaloidal basalt?	
(iii)	What is Laccolith?	
(iv)	What are the agents responsible for metamorphism?	
(v)	What is hanging valley?	
Q.1d	Name the following -	5
(i)	Boundary between crust and Mantle.	
(ii)	Product of volcano	
(iii)	The point of origin of earthquake	
(iv)	The type of metamorphism where temperature plays the dominant role	
(v)	A metamorphic rock	
Q.2(a)	Describe various landforms created by river.	10
(b)	What are the agents of weathering, briefly describe mechanical weathering?	5
(c)	Briefly describe the layered structure of Earth.	5
Q.3(a)	Describe the inequigranular texture of igneous rocks.	5
(b)	Describe various types of metamorphism	5
(c)	Describe any two structures of sedimentary rocks.	5
(d)	Describe geological properties of building stones	5
Q.4(a)	What are Folds? Give a brief account of various types of Folds in the rocks.	10
(b)	Give economic importance of Deccan Traps.	5
(C)	Describe any two laws of stratigraphy	5

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Q.5(a) Describe the water bearing properties of rocks.   5
  (b) Describe the favourable and unfavourable geological structures for dam.   10
  (c) Write the principle and use of electrical resistivity method of geophysical investigation. 5

Q.6 Differentiate between any 5 of the following-   5X4=20
(i) Dip and strike
(ii) Angular unconformity and Nonconformity
(iii) Pot hole and cirque
(iv) Confined and unconfined aquifer
(v) P-Wave and S-wave
(vi) Normal and Reverse fault

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