

S.E. Civil III CBSEGS
Engg. Geology

16.12.16
Q.P. Code : 538600

(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** indicates full marks.

- I. (a) Define the following :- 10
- (i) Focus and Epicenter
 - (ii) Core
 - (iii) Rudaceous rock
 - (iv) Cleavage
 - (v) Basic rock
 - (vi) Metamorphic agents
 - (vii) Natural and Mecanical joints
 - (viii) Era
 - (ix) Dip and strike
 - (x) Hade
- (b) Name the following rocks or minerals with the help of given properties. 5
- (i) Plutonic and acidic rock, graphic texture, major minerals orthoclase feldspar and quartz.
 - (ii) Volcanic rock, presence of amygdals.
 - (iii) Shows foliation, major mineral-mica
 - (iv) Soapy feeling, hardness-1, luster-pearly
 - (v) Taste -Saline, chem.composition-NaCl
- (c) Write the name of the following features. 5
- (i) Basin shaped igneous intrusion
 - (ii) Cone shaped water table
 - (iii) Sedimentary rocks in between lava flows
 - (iv) S shaped river
 - (v) Valley made by normal faults
- (a) Describe the types and importance of weathering with examples. 5
- (b) What are different types of volcanoes and volcanic products? 5
- (c) Explain the geological action of wind with landforms 10

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- 3. (i) Describe the causes and various types of folds with diagrams. 10
- (ii) Explain the formation and different types of unconformity. 5
- (iii) How are columnar and mural joints are formed? 5

- 4. (a) Explain the various structures of secondary rocks with diagrams. 10
- (b) Discuss about zones of groundwater, water bearing properties of rocks and factors controlling the movement of water in rocks. 10

- 5. (i) State the importance of geological structures during the construction of dam. 10
- (ii) Mention the precautionary measures in earthquake prone areas during construction of building. 5
- (iii) Write the classification and importance of Deccan traps. 5

- 6. Write short notes on (Any Five) 20
 - (a) Parallel and step fault
 - (b) Ropy and blocky lava
 - (c) Solifluction and creep
 - (d) Cataclastic structure
 - (e) Porphyritic texture
 - (f) Crag and Tail
 - (g) Core recovery, RQD and drill water
 - (i) Geological properties of building stones

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