

Lib

S.E. Civil III CBGS
Engg. Geo

30.5.16

QP Code : 30687

70

(3 Hours)

[Total Marks : 80

- N.B.
- (1) Question No.1 is compulsory
 - (2) Attempt any three from the remaining questions.
 - (3) Figures to the right indicates full marks
 - (4) Draw neat sketches wherever necessary

1(a) Describe identifying properties of following mineral with its economic use

- (i) Diamond
- (ii) Quartz
- (iii) Talc
- (iv) Orthoclase
- (v) Asbestos

05

(b) Explain following terms in short

- (i) Hanging valley
- (ii) Delta
- (iii) Anticline and syncline
- (iv) Cirques
- (v) Mud Flow

05

(c) Explain in brief

- (i) Moraines
- (ii) Cone of depression
- (iii) Source of ground water
- (iv) Artesian well
- (v) Fossil

10

(2) (a) With the help of suitable diagram describe geological work of wind.

10

(b) Draw different parts of fault. Give classification of fault.

06

(c) Write causes of earthquake. Discuss earthquake zones of India.

04

(3) (a) Explain electric conductivity method of geophysical exploration.

06

(b) With the help of diagrams describe textures of igneous rocks.

10

(c) What is metamorphism? Describe different types of metamorphism.

04

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- 4 (a) Describe lithology, classification and economic importance of Deccan Traps. 10
(b) What are the laws of stratigraphy? 04
(c) Describe geological and engineering properties of rocks as building stones. 06
- 5 (a) Give an account of the various properties and function of an aquifer. What is the difference between confined aquifer and unconfined aquifer? 10
(b) What are the forces acting on a dam? What is the influence of various geological features on the site selection of a dam? 10
- (6) Write short notes on (any five) (04x5)
- (i) Classification of folds
 - (ii) Unconformity
 - (iii) Methods of artificial ground water recharge
 - (iv) Types of Joints
 - (v) Metamorphism
 - (vi) Chemical Weathering