

Code No: Z – 41 – 2015

FACULTY OF ENGINEERING & TECHNOLOGY
T.E. (Civil) (Revised) Examination
MAY/JUNE, 2015

Engineering Geology

Time: Three Hours

Max. Marks: 80

“Please check whether you have got the right the question paper”

- Note:
- Q.No. 1 is compulsory and solve any two from the remaining questions from Section A.*
 - Q.No. 6 is compulsory and solve any two from remaining questions from Section B.*
 - Neat and clean diagrams must be drawn wherever necessary.*

SECTION-A

- Q.1 Write short notes on (Any Five) 10
- Thermal metamorphism.
 - Angular unconformity.
 - Plunge fold.
 - Schistose structure.
 - Streak of mineral
 - Graded bedding.
- Q.2 (a) What is metamorphic rock? Explain agents of metamorphism. 08
- (b) What is fault? Explain any six type of faults. 07
- Q.3 (a) What is earthquake? What are the causes of earthquake. 08
- (b) Explain Dip, strike and apparent dip, True dip. 07
- Q.4 (a) Write at length on Mohs scale of Hardness. 08
- (b) Write an essay on Deccan Traps. Discuss their mode of eruption, stratigraphy and age. 07

P.T.O.

Code No: Z – 41 – 2015

-2-

- Q.5 (a) Explain geological action of streams. Enumerate the characters of three stages of river. **08**
- (b) What is aquifer? Explain types of aquifer. **07**

SECTION-B

- Q.6 Write short notes on the following (Any Five) **10**
- (a) Water loss during drilling.
- (b) Factor promoting land slides.
- (c) Core recovery and core loss.
- (d) Overbreak in Tunnels.
- (e) Geophysical method.
- (f) Building Stone.
- Q.7 (a) Explain importance of the geological investigation of Dam. **08**
- (b) What is land slides? How are they caused? **07**
- Q.8 (a) Explain the disadvantages of drilling. **08**
- (b) Explain importance of Geology in Civil Engineering. **07**
- Q.9 (a) Discuss in detail surface exploration. **08**
- (b) What is tunnel? Describe the geological factors influence in tunneling. **07**
- Q.10 (a) What difficulties will have to face if. **08**
- (i) Dyke across the dam.
- (ii) Fault across the dam.
- (b) What happened when **07**
- (i) Lime stone bed occurs in the reservoir.
- (ii) Tunneling through compact Basalt.
