

# 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 |
|     | (a) Thermal metamorphism.   |    |
|     | (b) Angular unconformity.   |    |
|     | (c) Plunge fold.  |    |
|     | (d) Schistose structure.  |    |
|     | (e) Streak of mineral   |    |
|     | (f) 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 |

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- 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.

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