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SUBJECT CODE NO:- E-211
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E.(CIVIL) Examination Nov/Dec 2017
Engineering Geology
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Q.1 is compulsory and solve any two from the remaining question from section "A"
 - ii) Q.6 is compulsory and solve any two from the remaining question from section "B"
 - iii) Neat diagram must be drawn whenever necessary.

Section A

- Q.1 Write short Notes (any five) 10
- a) P-wave
 - b) Reverse fault
 - c) Angular unconformity
 - d) Symmetrical fold
 - e) Thermal metamorphism
 - f) Earthquake
 - g) Volcano
- Q.2 A) What is metamorphic rock? Give the classification of metamorphic rock with the example of each type. 07
- B) What is Joints? Explain types of Joints 08
- Q.3 A) Discuss origin, distribution, classification, economic importance of Deccan trap formation 07
- B) What is fault? Explain various types of fault. 08
- Q.4 A) What is unconformity? Explain three types of unconformity 07
- B) Write at length on Moh's scale of hardness 08
- Q.5 Distinguish between the following 15
- a) Love wave and S-wave
 - b) Primary minerals and secondary minerals
 - c) Strike fault and Dip fault.

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Section B

- Q.6 Write short Notes on (any five) 10
- a) Water tightness of basalt
 - b) Water loss during drilling
 - c) Types of drilling
 - d) Basalt as road metal
 - e) water table
 - f) Tunnel
 - g) Landslides
- Q.7 A) What types of treatment of leaky rocks are used when condition are 08
- i) Joints
 - ii) Fold zone
 - iii) Fault zone
- B) Explain the factors that help in selecting the rocks for building purpose 07
- Q.8 A) What is the rain harvesting? Give the importance of rain harvesting. 08
- B) Discuss the geological factors such as fold zone, inclined strata, swelling rocks which affect the tunneling 07
- Q.9 A) What happened when 08
- i) lime stone bed occurs in the reservoir
 - ii) Tunneling though compact Basalt.
- B) What difficulties have to be faced if 07
- i) Dams on fault rock
 - ii) Dams on Jointed rock.
- Q.10 A) Explain importance of Geology in Civil Engineering. 08
- B) What is drilling? Explain different types of drilling. 07