EX/CON/GEO/T/211/2017(S)

B. CONS ENGG. 2ND YEAR 1ST SEM. SUPPLEMENTARY EXAMINATION 2017

Subject: ENGINEERING GEOLOGY Time: Three hours Full Marks:

GROUP: A

(Use separate answer scripts for each Group)

Answer question number 1 and any 3 from the rest

1. Write short note on (any two): (5.5 x 2 = 11)
   a) Tectonic landform
   b) Earth interior structure
   c) Plate tectonic

2. What is magma? What is the broad classification of igneous rocks? Explain Bowen's reaction series. Write note on texture of igneous rocks. (3+3+3+4=13)

3. What is soil? Which factors are responsible for soil formation? Write note on soil profile. What is metamorphic texture? Explain with sketch diagram. (2+4+3+4=13)

4. What are the depositional environments of sedimentary rocks? Explain formation of sedimentary rocks in fluvial system? Describe different kinds of clastic sedimentary rocks (3+5+5=13)

5. What do you understand by the terms of 'natural hazards' and 'disaster'? Describe different kinds of natural hazards. What are the phases of disaster management? (3+6+4=13)

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B. Const. Engg. 2nd yr. 1st Sem. Supplementary Examination, 2017

Subject- Engineering Geology

Time: Three hours **Full Marks: 100**

Group-B

Answer question number 1 and any 1 from the rest.

1. Write short note on: (any six) 5 x 6
   a. S-wave shadow zone
   b. Focus of earthquake
   c. Subduction zone
   d. Normal fault
   e. Streak and Hardness of mineral
   f. Mantle
   g. Shear fractures
   h. Foliation

2. What types of seismic waves are generated during earthquake? Which seismic waves cause damage mostly in the earth surface during earthquake and why? Give details of the different parts of the interior of the earth with the help of suitable diagrams.

   4 + 6 + 10

3. What are the basic premises of plate tectonics theory? Write the salient features of different plate boundaries in the earth. Write the major supporting evidences for the continental drift theory.

   4 + 6 + 10

4. What are the main objectives for construction of a dam? With the help of suitable diagram describe the principal types of dams along with their salient features.

   8 + 12