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B. Tech 3rd Semester Examination, 2016 **Engineering Geology**

http://www.akubihar.com Time: 3 hours

Full Marks: 70

Instructions:

- There are Nine Ouestions in this Paper.
- Attempt Five questions in all.
- Question No. 1 is Compulsory.
- The marks are indicated in the right hand margin.
- Make the diagram essentially wherever it is required.
- http://www.akubihar.com Write in short limiting to five sentences.
- 14
- (a) Diagnostic physical properties of Fluorite
- (b) Characteristics of sand dunes.
- (c) Recumbent Fold.
- (d) Over thrust.
- (e) Unconfined Agifer.
- 4f) L-wave characteristics.
- (g) Megascopic properties of any non-clastic sedimentary rock

P.T.O.

- 2. (a) Describe the landforms developed by glaciers during young and mature stage.
 - (b) Explain the texture observed in Granite rock.
- 3. (a) Describe the components of Fault and classification of Fault. 14
 - (b) Explain the difference between the plunging and Non-Plunging Fold.
- (a) Describe the causes of earthquakes and its classification.
 - (b) Surface and sub-surface investigation for selection ' of Tunnelling site.
- (a) Explain the stratigraphy of Gondwana basin. 14
 - (b) Concept of Dip and strike and its application.
- 6 (a) Describe the classification of Metamorphic rocks.
 - (b) Explain the principle and application of seismic method. 14
- http://www.akubihar.com (a) Concept of GPS and its application in different geological investigations. 14
 - (b) Describe the different layers of Atmosphere and their characteristics.
 - (a) Write down the different textures of igneous rocks.
 - (b) Explain the crystal system and their axis of symmetry. 14

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- 9. Write short notes on following:
 - (a) Phaccolith and Dykes
 - (b) Isoclinal folds and fold axis
 - (c) Ground penetrating Radar and their application
 - (d) Engineering properties of Sandstone

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