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B.Tech 3rd Semester Exam., 2017

ENGINEERING GEOLOGY

Time: 3 hours Full Marks: 70

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Instructions:

- (i) All questions carry equal marks.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt FIVE questions in all.
- (iv) Question No. 1 is compulsory.
- 1. Write in short (limiting to five sentences) on the following:
 - Diagnostic physical properties of calcite
 - Characteristics of valleys formed by tectonic activity akubihar.com
 - Transform faults and earthquakes
 - (d) Ground penetrating radar and application akubihar.com
 - Causes for depletion of groundwater level
 - S-wave characteristics
 - Megascopic properties of any clastic sedimentary rock

(Turn Over)

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- Describe the landforms developed by stream during young and mature stage.
 - Explain the texture observed in gabbro rock.
- Describe the components of fold and classification of fold.
 - Explain the difference between the strike slip and the dip-slip fault.
- Describe the causes of landslides and its 4. (a) preventive measures. akubihar.com
 - Write about the surface and sub-surface investigations for the selection of a dam site.
- Explain briefly the stratigraphy of the Himalayan region of any State.
 - Write the concept of dip and strike and its application in tunnelling.
- Describe the classification of igneous rocks.
 - Explain the principle and application of the seismic method. akubihar.com
- Write the concept of GIS and its application 7. (a) in different geological investigations.
 - Describe the different layers of atmosphere and their characteristics.

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- 8. (a) Write down the different textures of metamorphic rocks.
 - (b) Explain the crystal systems and their axis of symmetry.
- 9. Write short notes on the following:
 - (a) Sills and dykes
 - (b) Shear joints and thrust fault
 - (c) Radioisotopes and their applications
 - (d) Engineering properties of rock

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Code: 011305
