

TCE-404

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Printed Pages : 3

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

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B.Tech. (IV - Sem.)

Even Semester Examination - 2016

ENGINEERING GEOLOGY

[Time : 2 Hours]

[Maximum Marks :50]

Note: Attempt All Questions

Q1. Attempt **any four** questions : (2.5x4 = 10)

- (a) On what basis silicate minerals are classified?
Indicate the classification.
- (b) List the essential rock forming minerals.
- (c) How are the metamorphic rocks classified?
- (d) Discuss the importance of rocks in civil and mining engineering.
- (e) Write short note on crust of earth.

Q2. Attempt **any four** questions. : (2.5x4=10)

- (a) How can you distinguish between true dip and apparent dip?

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(1)

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(b) Write a brief note the recognition of faults in the field.

(c) Write short note on S-waves.

(d) What is an aquifer? How are they formed and classified?

(e) Discuss how seismic study will help us to understand the seismicity of the region.

Q.3 Attempt **any four** questions. : (2.5x4=10)

(a) What are folds? How are they formed?

(b) What are joints? Briefly classify the different joints

(c) Write short notes on:

(i) Dome and Basin

(ii) Anticlinorium and Synclinorium

(d) Give a general view of CORE of earth.

(e) Write short note on Physical properties of minerals.

Q.4 Attempt any two questions: (5x2=10)

- (a) What are folds? Describe the types of folds with suitable sketch.
- (b) Distinguish between
 - (i) Magnitude and Intensity
 - (ii) Focus and epicenter
- (c) Explain the mode of propagation of seismic waves.

Q.5 Attempt any two questions: (5x2=10)

- (a) What are the causes of folds and folding? Briefly discuss the importance of folds and folding.
- (b) Differentiate between
 - (i) Marble and limestone
 - (ii) Shale and Slate.
- (c) What are landslides? Discuss various types of landslides.

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