

Code No: R1631012

**R16****SET - 1****III B. Tech I Semester Regular Examinations, October/November - 2018****ENGINEERING GEOLOGY**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answer **ALL** the question in **Part-A**3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

1. a) Define the term geology. [2M]
- b) What is meant by specific gravity? [2M]
- c) What is meant by strike? [2M]
- d) What are pellicular waters? Where it occurs? [3M]
- e) What are the parameters of electrical methods? [3M]
- f) What is the importance of over break? [2M]

**PART -B**

2. a) What are the branches of geology with reference to civil engineering? [7M]
- b) Explain the geological works of rivers. [7M]
3. a) What are the common structures of sedimentary rocks? [7M]
- b) Distinguish between i) shale and slate ii) limestone and marble iii) granite and quartzite [7M]
4. a) What are the parts of joints? Give their types. [7M]
- b) What are the parts uniformities? Give their types. [7M]
5. a) Explain the classification of rocks based on porosity and permeability. [7M]
- b) Describe the ground water exploration techniques. [7M]
6. a) What are the principles of exploration geophysics? [7M]
- b) What are principle, parameter and methods of gravity method? [7M]
7. a) What are the types of dams and give their purpose? [7M]
- b) Explain the influence of rock types for successful construction of dams. [7M]

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SET - 2

SET - 3

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**R16****SET - 4****III B. Tech I Semester Regular Examinations, October/November - 2018****ENGINEERING GEOLOGY**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

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Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answer **ALL** the question in **Part-A**3. Answer any **FOUR** Questions from **Part-B**  
~~~~~**PART -A**

1. a) Define the term economic geology. [2M]
- b) What is meant by streak? [2M]
- c) What is meant by unconformity? [2M]
- d) What is meant by earth movements? [3M]
- e) What are the parameters of geo thermal methods? [3M]
- f) What are the effects of tunneling? [2M]

**PART -B**

2. a) What are the geological agents? [7M]
- b) Explain the role of importance of geology in civil engineering. [7M]
3. a) What is the mode of formation of minerals? [7M]
- b) Write the physical properties of quartz group of mineral. [7M]
4. a) Draw the sketches and parts of anticline, syncline, isoclinal, drag, dome and basin of folds. [7M]
- b) What are the conformable and unconformable beds? Give their mechanism. [7M]
5. a) What is meant by porosity and permeability? [7M]
- b) What is water table? Give their types of ground water. [7M]
6. a) What is the importance of engineering geo physics [7M]
- b) What are the principles, methods of seismic refraction method? [7M]
7. a) What are the competent rocks for safe foundation of dams? [7M]
- b) Write the importance of ground water condition for tunneling. [7M]

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