



## 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

#### 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]
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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]
5.	a) b)	Distinguish between i) shale and slate ii) limestone and marble iii) granite and	[7M]
	0)	quartzite	[/1 <b>v1</b> ]
4.	a)	What are the parts of joints? Give their types.	[7M]
	b)	What are the parts uniformities? Give their types.	[7M]
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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]
1.	a) b)	Explain the influence of rock types for successful construction of dams.	[7M]
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### PART -A

1.	a)	Define the term structural geology.	[2M]
	b)	What is meant by fracture?	[2M]
	c)	What is meant by dip?	[2M]
	d)	What are types of waves?	[3M]
	e)	What is the principle of magnetic methods?	[3M]
	f)	Draw the top view of buttress dam?	[2M]
	,	PART -B	
2.	a)	What are the physical parameters of weathering process?	[7M]
	b)	Explain the development of river and valley development.	[7M]
3.	a)	What are the forms of igneous rocks?	[7M]
5.	b)	Explain the classification and structures of igneous rocks.	[7M]
	0)	Explain the classification and situetales of igneous rocks.	[/14]
4.	a)	What are the parts of folds? Give their mechanism of folding.	[7M]
	b)	Explain the types of folds with sketches.	[7M]
5.	a)	What are landslides? Explain the internal causes of landslides.	[7M]
	b)	Enumerate the classification of earth movements.	[7M]
6.	a)	What is the importance of geo physical investigations?	[7M]
0.	b)	What are the controlling properties, principle and methods of electromagnetic	[7M]
	0)	method?	[/1 <b>v1</b> ]
7.	a)	What is life of reservoir?	[7M]
	b)	Explain the influence of geological structure for successful reservoirs.	[7M]
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## PART -A

1.	a)	Define petrology.	[2M]
	b)	What is meant by cleavage?	[2M]
	c)	What is meant by fault plane?	[2M]
	d)	What is meant by unconfined water?	[3M]
	e)	What are the parameters of gravity methods?	[3M]
	f)	What is the capacity of the reservoir?	[2M]
	,	PART -B	ĽJ
2.	a)	What is the role of atmosphere in weathering, erosion and denudation?	[7M]
	b)	What are the chemical and biological parameters of weathering process?	[7M]
3.	a)	What are the methods of study of minerals?	[7M]
	b)	Explain the different typical forms in identification of minerals.	[7M]
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4.	a)	What are the parts of faults? Give their mechanism of faulting.	[7M]
	b)	Explain the types of faults with sketches.	[7M]
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5.	a)	What is meant by earthquake and their effects in structures?	[7M]
	b)	What are the preventive measures taken in the construction of building in	[7M]
		earthquake prone areas?	
6.	a)	What are the factors influencing of electrical resistivity?	[7M]
	b)	What are the different types of electrical resistive methods?	[7M]
7.	a)	What is the purpose and lining of tunneling?	[7M]
	b)	Explain the importance of geological structures for successful tunneling.	[7M]

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### 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? R                                           | [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] |
|    | 0) |                                                                               | [,]  |
| 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 | [7M] |
|    | ,  | basin of folds.                                                               |      |
|    | 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] |
|    |    | www.upiqpbank.com                                                             |      |
| 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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