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**

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]
		<u>PART -B</u>	
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]
	h)	Explain the influence of rock types for successful construction of dams	[7M]

Code No: R1631012

R16

SET - 2

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

I.	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]
	b)	Explain the classification and structures of igneous rocks.	[7M]
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]
	b)	What are the controlling properties, principle and methods of electromagnetic method?	[7M]
7.	a)	What is life of reservoir?	[7M]
	b)	Explain the influence of geological structure for successful reservoirs.	[7M]

www.FirstRanker.com

Code No: R1631012

R16

SET - 3

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

www.FirstRanker.com

Code No: R1631012 (**R16**

SET - 4

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 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]