320356(20)

B. E. (Third Semester) Examination, April-May 2020

(New Scheme)

Civil Branch)

ENGINEERING GEOLOGY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: All question are compulsory, carrying equal marks. Attempt any two parts from (b), (c) & (d) however, part (a) is compulsory to attempt from each question.

Unit-I

- 1. (a) Explain 'Mantle' of the Earth.
 - (b) Write physical properties for megascopic identification of any four of the following:

		[2]		Pages	Printed
(i)	Amethyst				
(ii)	Felspar				
(iii)	Gypsum	neva seu	-		

- (iv) Colcite
- (v) Muscovite
- (vi) Asbestos

2.

(c) Explain the importance of engineering geology for civil engineers.

Dew Schomes

(d) Describe various megascopic properties used for identification of minerals in laboratory.

Unit-II

(a)	Diff	erentiate between magma and lava.	2
(b)	Des	cribe various types of folds seen in the rocks.	7
(c)	Des	cribe the agents and types of metamorphism.	7
(d)	Wri	te short notes on any four of the following:	7
	(i)	Horst and Graben	
	(ii)	Normal and Reverse fault	
	("")	YILL CONTRACTOR OF THE PARTY OF	

[3]

[W (v) Gill and Dyke without to a stadiocately (ii).

(vi) Current bedding & Graded bedding with the

olk not hosp adjusted last places, abstract abdeptil (s) **Unit-III**on adjust a short paragraphy

- (a) Define "Tsunamis".

 (b) Propose a classification of Earthquake and explain seismic zones of India.
 - (c) Explain the properties of seismic waves.
 - (d) Explain origin of Earthquakes on the basis of the theory of plate testonics.

Unit-IV

(a) Define 'Avolonches'.
(b) Explain different types of land movements.
(c) Define landslide. Explain causes and preventive measures of landslides.

Unit-V

(d) Explain the significance of ground water/rainwater in

5. (a) Define 'dip' and 'strike'.

landslide.

2

7

7

(iv) Ripple marks

(b) Explain influences of various geological structure up	on
(c) Explain various geological criterias used for selection of an ideal Tunnel site.	site
(d) Explain the characteristics of a geological map	· [6]
Propose a classification of destroyane and explain suism's cones of 2000s.	
Explain the properties of seignic waves.	(9)
Evoluin origin of Entinquakes on the basis of the theory of plate testonics	(b)
Unit-IV	
Define Avalenches*	(B): .
Explain different types of land movemens.	(i)
Define landslide, Explain causes and preventive measures of landslides.	(0)
Explain the significance of ground water/reinwater in landslide.	(6)
Define dip and strike	(n) .