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Roll No.:

320516(20)

B. E. (Fifth Semester) Examination, April-May/Nov.-Dec. 2020

(Old Scheme)

(Civil Engg. Branch)

ENGINEERING HYDROLOGY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Internal choice are given in the questions.

Immediately III im to Unit-I make relingthese

1.	(a)	Define Hydrometeorology.	2

(b) Explain Hydrologic cycle with neat sketch. 7

[3	1
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Unit-III

		Explain about scope and practical application of	7	3. (a) Define basin yield.	2
		Hydrology.	7	(b) What is infiltration? What are the factors affecting it.	7
	(c)	Explain about weather season in India.	7	Or	
		Or		What is Runoff? What are its component.	7
		Define Air Masses and fronts.	7	(c) Explain About Infiltrometers.	7
		Unit-II		Or	
2.	(a)	Define Precipitation.	2	Explain about ϕ -index and w-index.	7
	(b)	Explain Non Recording Raingauge with neat sketch. Or	7	Unit-IV	
		Explain Recording Raingauge with neat sketch.	7	4. (a) Define Hydrograph.	2
	(c)	How you will decide the location of Raingauge?		(b) Explain characteristics of Hydrograph.	7
		Explain.	7	Or	
		Your claimed all question literary literary litters		Explain effect of rainfall distribution on the shape of	
		The average annual rainfall in cm at four existing		hydrograph.	7
		reaingauge station in a basin are 105, 79, 70 and		(c) Explain unit Hydrograph and derivation.	7
		66. If the average depth of rainfall over the basin is		Or	
		to be estimated within 10% error, determine the additional number of gauges needed.	7	Explain application of unit hydrograph.	7

[2]

Or

PTO

[4]

Unit-V

(a) Define ground water.	2
(b) Explain Aquifer Parameters.	7
Or	
Explain Darcy's Law in detail.	7
(c) Explain Pumping test in detail.	7
Or	
Explain Recuperation Test in detail.	7
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Regulare replication of the hydrograph.	
	(b) Explain Aquifer Parameters. Or Explain Darcy's Law in detail. Or Explain Pumping test in detail. Or Explain Recuperation Test in detail.