B.Tech. Civil (Water Resources Engineering) Term-End Examination

June, 2017

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ET-532(A): HYDROLOGY

Tir	Time: 3 hours Maximum Marks: 70			
Note : Answer any five questions. All questions carry equal marks. Give neat and labelled sketches.				
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1.	(a)	Explain hydrologic cycle. 7		
	(b)	What is evapotranspiration? How can you		
		estimate it?		
2.	(a)	Explain Symons rain gauge. 7		
	(b)	Explain the methods for calculation of average precipitation.		
3.	(a)	What are the methods of computing direct runoff? Explain one of them.		
	(b)	How can you measure the stage? Describe. 7		
4.	(a)	How can you measure the discharge of a channel? Explain any one method.		
	(b)	Define unit hydrograph and give the underlying assumptions.		
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5.	(a)	What are the types of distribution of sample	
		data?	7
	(b)	Explain the regional frequency analysis.	7
6.	(a)	Explain the Muskingum method,	7
	(b)	Explain the rational method for flood estimation.	7
7.	(a)	Write about DPAP.	7
	(b)	Explain Gumbel's probability method.	7
8.	(a)	What are the factors affecting infiltration?	7
	(b)	Explain:	7
		(i) Unconfined aquifer	
		(ii) Confined aquifer	