No. of Printed Pages : 2

ET-532(A)

## **B.Tech. Civil (Water Resources Engineering)**

## **Term-End Examination**

DD282 December, 2016

## ET-532(A) : HYDROLOGY

Tin	ne : 3	hours Maximum Mar	Maximum Marks : 70	
Not		Answer any <b>five</b> questions. All questions equal marks. Give neat and labelled sketches.	•	
1.	(a)	Explain the formation of precipitation.	7	
	(b)	Explain the Hydrologic Cycle.	7	
2.	(a)	Explain the non-recording type rain gauge.	7	
	(b)	How can you find the average depth precipitation?	of 7	
3.	(a)	Explain the factors affecting evaporation.	7	
	(b)	Explain the infiltration process.	7	
4.	(a)	What are the factors affecting run-off Explain.	? 7	
	(b)	Write the methods to compute the discharged of a channel and explain any one of them.	ge 7	
ET-532(A)		A) 1	P.T.O.	

5.	(a)	What is Unit Hydrograph ? Explain the	
		derivation of Unit Hydrograph.	7
	(b)	What is Least Square method and where is	
	-	it used ?	7 : .:
6.	(a)	Explain the Index-Flood method.	7
	(b)	Explain the Homogeneity test.	7
7.	(a)	Explain the Storage Indication method.	7
	(b)	Explain the following :	7
		(i) Hydrologic Routing	
		(ii) Hydraulic Routing	
8.	Wr	ite short notes on any <i>four</i> of the	
	foll	owing: $4 \times 3\frac{1}{2} =$	14
	(a)	Mode	
	(b)	Normal Distribution	
	( <b>c</b> )	Slope-Area Method	

(d) Darcy's Law

1,000