318	<u>.</u>	B.Tech 5th Semester Exam., 2015							
andu		B.Tech 5th Semester Exam., 2015 ENGINEERING HYDROLOGY e: 3 hours Full Marks: 70							
Ir.co	Time	e:3	hours	Full Marks: 70					
		ructio			akubihar.com				
	<i>(i)</i>) The marks are indicated in the right-hand margin.							
2	(ii)	There are NINE questions in this paper.							
Ĩ	(iii)	(iii) Attempt FIVE questions in all.							
olnar	(ΐυ)	•	akubihar.com						
COID	1.	ii) Attempt FIVE questions in all. iv) Question No. 1 is compulsory. 1. Write on any seven from the following in short preferably 1 or 2 sentence(s) each: 14							
akubinar.com		(a)	Infiltration						
		(b)	Infiltration rate						
		(c)	Precipitation						
	-	(đ)	Saturation pressure _		ak				
	-	(e)	Runoff		du				
	;	(f)	Zone of saturation		akubihar.com				
		(g)	Flood stage		r.c				
		(h)	Zone of aeration		0 m				
		(i)	Capillary fringe						
-	AK:	16 /34	9	(Turn Over)					

Code: 011512

m0	AK16,	/34		8 ed 1		AK16—14	* * * 440/ 349 Code : 011	E10
akubihar.com			Taking the value of ϕ index as 3.2 cm/hr, find out the net runoff in cm, the total rainfall and the value of w index.	0	m	(e)-	Soil moisture deficiency	m
			2·5, 2·5, 10·0, 7·5, 1·25, 1·25, 5·0 cm/hr	2·5, 10·0, 7·5, 1·25, 1·25, m/hr		(c) (d)	Rain intensity Rainfall distribution	akubihar.com
			a 140-minute storm :		akubihar.com	(b)	Field capacity	ıbih
akubihar.com	((b)	The following are the rates of rainfall for successive 20 minutes period of		aku	(a)	Infiltration capacity	14 aku
	A	(a)	Write about the characteristics of precipitation.	6		9. Write short notes on any three of t following:		
		(b)	Write about the runoff process.	8	5	(b)	How will you prepare a unit hydrograph from an isolated storm?	8
	3.	(a)	capacity in the exponential form. Write about the types of precipitation.	8 6	ar.con	8. (a)	Write about the fundamental equation for runoff computation.	ar.con
akubihar.com al		1	Infiltration capacity,: 1.2 1.1 1.0 1.4 f (in cm/hr) Find an equation for the infiltration	O	akubihar.com	(b)	Write about the determination of flood by using empirical formula.	kubihar.com
			Time (in hours) : 1.25 1.50 1.75 2.1		<u>ء</u> ج	7. (a)	Write about estimating design flood and flood flows.	46, <u>22</u>
			the fat nours,	00 -5 -	om	(15)_	Write about the design flood and its importance.	8 m
	,,	-,	at different intervals of time are indicated below:		akubihar.com	The same	Write about the causes of flood.	akubihar.com
	0	(b)	infiltration capacities of an area	6	du	(b)	Write about the groundwater yield.	ď
	2. (a)	Write about the factors affecting	6	<u>n</u>	5/ (a)	Write about the drainage of ground- water.	<u>ه عا</u>

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