	PA	PA	PA	P6	PA	PA I					
	E. Same	i Series		15 AGTA	0188	015					
Code No: 125AC R15											
					ITY HYDERABA	LD.					
	B. Tech III				ecember - 2017	2.5					
		wanter.	SOURCES ENC ommon to CE, C								
Time	3 hours	HO C			Max. Ma	rks: 75					
Note:	This question p										
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.											
	Ma					no r					
		HO .	PARTA		(25 ]	Marks)					
1.a)		s interception lo				[2]					
b)	what is hydrog	grapn? Draw a s	angle peaked h	ydrograph and	explain its compo	onents? [3]					
c)	What are the di	fferent types of a	quifers?	MANAGE AND ADDRESS OF THE PROPERTY OF THE PROP		[2]					
	Write a short no	ote on sprinkler r	nethod of irrigat		DA.	[3]					
( e)				forms of a soi	1 moisture. What	-					
f)	understand by the Explain various			rious classifies	otion exetems	[2]					
g)	Differentiate be				mon systems.	[3] [2]					
h)	Write short note	•				[3]					
i)	Define S-Curve			پېدىن رېستىن	ريمين	[2]					
	Distinguish bety	ween influent str	eam and effluen	t stream/		[3]					
			PART - B								
					(50 N	Marks)					
					·	,					
2.a)	•		-		es of precipitation.	C.11 C					
b)					3hr storm with rain inates of unit hydr						
					nm, infiltration in						
	5mm/hour and b					[5+5]					
	····										
<b>}</b>	ours 0	03 06 0		<del></del>	24 03 6	09 12					
Or	dinates of 0	90   200   3	50   450   350	260   190	130   80   45	20 0					
	drograph										
4 1/ 1 1 5	imecs)	DA L	DA.	IDAI		DA [					
			OR								
3.a)	•	_			in producing varia						
		during a storm,	and also in prod	ucing seasonal	l and spatial variat	ions in					
b)	infiltration rate.  Describe the ISI	standard evanor	ration ran with	a neat cleatch. T	n what way it is di	fferent					
<i>U)</i>	from USWB cla	•	anon pan with	a moat Skotoll. I	ii wiiai way 11 18 Ul	[5+5]					
$\Box$											

P6	P6	P6	P6	P6	P6	P6'						
b)	in the runoff pro	cess? nates of a two l	nour unit hydro	escribe how each								
Time (Hou Disc) (cum	harge 0.0 1.0			08 09 10 6.3 5.0 4.0	11 12 13 1 2.9 2.1 1.3 0.	5 0.0						
OR  5. What do you understand by unit hydrograph? How is it derived? Explain its use in construction of flood hydrograph resulting from two or more periods of rainfall? [10]												
	Explain the term i) Porosity ii) Specific yield iii) Permeability		P6	P6	P6	P6						
b)	Explain Darcy's flow into well.	s law. List out		as made in the a	nalysis of steady	radial [5+5]						
	Explain the term i) Cone of depre ii) Radius of inf iii) Drawdow	ssion 💚	OR	P6	P6	P6						
b) 8.a)	When 3.68 mill areal extent, the	e water table water? During a m, what is the values on the followacity	as observed to monsoon seaso colume of recha	go down by 2.6 on if the water ta	m. What is the s	specific						
(b) (b) (b)	iv) Optimum w What are the fa	ater. ctors affecting control various method	OR ls of surface irr	duty be-improved igation.	HO	[5+ <del>5</del> ] [5+5]						
10.a)	For a channel, to bed width-dept Kennedy's theo How do you me	ratio B/D are	given. Explain	icient N, critical how would you ov?	velocity ratio m, design the channe	and the el using [5+5]						
11.a)		theory, design a	OR	nnel for the follo	wing data:							
(b)			lysis? How do	you compute of	design discharge	over_a [5±5]						

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