Total	l No	o. of Questions : 8]	SEAT No. :
PB.	374	43 [6262]	[Total No. of Pages : 2
		T.E.(Civil Engineering)	)
I	ΗY	DROLOGY AND WATER RESOURC	
•		(2019 Pattern) (Semester -I) (	
		½ Hours] ions to the candidates:	[Max. Marks:70
	исн 1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or	Q.8.
	<i>2</i> )	Neat diagrams must be drawn wherever necessary.	
	<i>3)</i>	Figures to the right indicate full marks.	
	<i>4)</i>	Assume suitable data, if necessary.	290
		0, 3	
Q1)	a)	Explain Q-GIS and its application in hydro	logy. [10]
Ų1)	b)		
	U)	Explain Rational formula and its importance	
		9.	
		ORO)	/
<i>Q2</i> )	a)	Explain watershed delineation procedure u	using a topo sheet with neat
		sketches.	[10]
	b)	Explain flood routing in detial.	[8]
		() 96	
(2)	- )	E1-in 1 5'- Xit6'-	······································
Q3)	a)	Explain how will you fix the capacity of reand outflow.	eservoir using annual inflow
	b)		₩ L J
	- )	reservoir.	[7]
		8.	<b>3</b> , 5,
		OR	
<b>Q</b> 4)	a)	What are various investigations required for	
	b)	State measures to control reservoir sedimer	itation. [7]
05)	`		5 (1). C 1 .C
<b>Q</b> 5)	a)	Derive the formula to calculate discharge o and unconfined aquifer.	a wen in a confined aquifer [10]
	b)		
	U)	for spacing of tile drains.	[8]
			[0]
		OR OR	
		9.	Р.Т.О.
		<b>X</b> .	=1=100

<b>Q6</b> )	a)	Explain reclamation of saline lands. [10]
	b)	State various types of tube wells and explain construction of slotted type tube well. [8]
<b>Q</b> 7)	a)	Explain Piped Distribution Network (PDN) and state its advantages.[10]
	b)	Explain Hortons curve with neat sketch. [7]
		OR OR
Q8)	a)	What is evaporation, state Meyer's formula and Rowher's formula and
		explain every term in formula. [10]
	b)	Differentiate between surface irrigation and subsurface irrigation and
		explain drip irrigation in detail. [7]
	6	(38) (38)
		CARD CARD CARD
		Rolling States
		26.
		kg. Ab. 16.28 by Ab. 11. Postatic 12. By Ab. 11. By A
1/2/	<b>711</b>	
[626	ZJ-I	<b>2</b>