		Question Pap	er Code: 56A02			
	B.E	./B.Tech. DEGREE I	EXAMINATION, DEC 20)20		
		Sixth	Semester			
		Agricultur	e Engineering			
	15UAG602 - H	YDROLOGY AND '	WATER RESOURCES E	NGINEERING		
		(Regul	ation 2015)			
Duration: 1.15 hrs Maximum: 30 Marks						
		PART A - ($6 \times 1 = 6 \text{ Marks}$			
		(Answer any six of	the following questions)			
1.	•					
	(a) Infiltration	(b) Precipitation	(c) Evaporation	(d) Transpiration		
2.	is defined as the process by which water enters the sub-surface strata of the earth.					
	(a) Infiltration	(b) Precipitation	(c) Evaporation	(d) Transpiration		
3.	The Hydrologic equation is simply the statement of the law of conservation of mass and is given by					
	(a) I = O - S	(b) $I = O * S$	(c) I = O + S	(d) $I = O / S$		
4.	The part of runoff which enters the stream immediately after CO precipitation is called					
	(a) Perennial stream	(b) Base flow	(c) Drainage flow	(d) Direct runoff		
5.	State the Dicken's f	ormula to calculate th	ne flood discharge	CO3-R		
	(a) $Q = C + A$	(b) $Q = C - A$	(c) $Q = C / A$	(d) $Q = C * A$		
6.		are issued on the ndicate with the next	basis of the analysis of hours	CO3-R		
	(a) 12 to 24	(b) 8 to 12	(c) 24 to 48	(d) 12 to 15		

 $\mbox{(a) } E = I - Q - S \qquad \mbox{(b) } E = I + Q - S \qquad \mbox{(c) } E = I - Q + S \qquad \mbox{(d) } E = I \ + Q + S$

CO4-R

Reg. No.:

7. Horton's water balance equation is

8.		is the reservoir provided with sluice gate and sluice ays which can be operated by manual.								
	(a) Detention	(b) Retention	(c) Levees	(d)	Flood wall					
9.	is a saturated formation of earth materials which not only stores water but yields sufficient quantity of water									
	(a) Aquiclude	(b) Aquitard	(c) Aquifer	(d)	Aqufuge					
10.	10. A Storm which contributes to the ground water is known as									
	(a) Percolation	(b) Influent stream	(c) Effluent stream	(d)	Infiltration					
	PART – B (3 x 8= 24 Marks)									
(Answer any three of the following questions)										
11.	Explain the hydrological cycle with neat diagram. CO1-R									
12.	Define watershed. Explain it with its Catchment characteristics. CO2-R									
13.	Explain the structure management	ctural and non-struc	tural approach for	flood	CO3- App	(8)				
14.	Explain briefly about the different storage zones of the reservoir CO4-U									
15.	What are the Groundwater Regions of India? Explain in Detail CO5-U									