RETEST EXAMINATION 2019 HOLL

Semester: 6th

Subject Code: CT-612

WATER RESOURCE ENGINEERING

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Instructions:

- 1. All questions of PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART - A

Marks - 25

1. Fill in the blanks:

(a) ____ is a geological formation through which only seepage is possible. 2

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2/WRE	Symon's Gauge is an example of gauge.	When rain comes in contact with the cold ground at 0°C, the water drops freeze to form	A fine sprinkle of water droplets of size less than 0.5 mm and intensity less than 1 mm/h is called	The plot between intensity of time is called	The plot between accumulated rainfall time is called	The amount of pore space per unit volume of the aquifer material is 2	is a geological forma	is a geological for impermeable to water flow
(2)	uge is an e	comes in °C, the wate	ikle of watum and inter	etween inte	etween acc	t of pore s fer materia	is a geological formation which is porous nor permeable.	is a geological able to water
	xample of	contact wi	er droplets		umulated	pace per i	l formation	l formation flow.
	2 rain 2	ith the col	of size les	rainfall an	rainfall and 2	unit volum	on which	formation which is flow. 2
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55	. 25 . 42		CENTRAL MISTINGTE OF THE	HIND BY HOUSE				
55/CT-612/WRE						(E)	€	_ ∈
2/WRE	Derive the differential e ground water flow in a co Describe the different instrumeasurement with figures.	Write in det hydrograph.	m ³ /h) 0	nates of		(l) Kharib of the : (m) The plot	Rabi cr	rain gauge.
	differe ir flow different t with f	ails wh	4 12 20 80	Ma (4h uni	P.	crop sea year. of between	rop seas	0
3	Derive the differential equation for unsteady ground water flow in a confined aquifer. 9 Describe the different instruments used for rainfall measurement with figures. 9	Write in details which are the factors affect the hydrograph.	ne (h) 0 4 12 16 20 24 28 32 36 40 UH(m³/h) 0 20 80 130 150 130 90 52 27 0	Marks – 45 Ordinates of 4h unit hydrograph is given below,	PART-B	crop season falls in the months year. 2 t between discharge and time is called	Rabi crop season falls in the of the year.	Bucket is an example of
	quation affined a ments u	the fac	24 2	5 graph is		alls in the charge and	in the	n exam
[Tu	for unquifer.	tors aff	28 32 36 90 52 27	s given		I time i		ple of
Turn over	nsteady 9 rainfall 9	ect the	36 40 27 0	below,	-	months 2 s called	months 2	2

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6. Write short notes on :

3×3=9

- (a) Unit Hydrograph
- (b) Types of precipitation
- (c) River Training
- 7. What are the effects, causes and remedial measures of water logging in agricultural land? 9

