

Code	:	150	CE	52	T
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Register Number	 T			
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## V Semester Diploma Examination, April/May-2018

## WATER RESOURCES ENGINEERING

	WATERRESC	OKCES ENGI	MEERING	
Ti	me : 3 Hours ]		Max. Ma	rks : 100
Ins	tructions: (i) Answer any six q	uestions from Part - A. I	Each question carrie	s 5 marks.
		en questions from Part		
			49	11 9
	90	PART - A		119 32
1.	List the necessity of Irrigation in I	ndia.		5
150		30 (4)		
2.	Define :	\$		. 5
	(i) Evaporation	\$7 E		
	(ii) Transpiration		- 8	
	(iii) Run off	1 20		
	(iv) Infiltration	2 2 20	65	
	(v) Interception	+85		
3.	What is precipitation and list differ	rent forms of precipitation	n	5
4.	Explain Border strip method of irri	gation.	H 90	5
	Defeat.	9 2	39 (4)	
5.	Define :			. 5
	(i) Duty	3 3 3		
	(ii) Delta			- 1
	(iii) Base period			
	(iv) Gross Command area			
	(v) Intensity of irrigation			
6.	Write a short note on Inspection ga	llery.	W <sub>2</sub>	5
7.	What are spill ways? List different	types of spill ways.		5
		1 of 2		Communication of the communica
		1012	. 11	Turn over

	3	1 .	
			* *
		: X	196
15C	E52T	2 of 2	1136
8.	Draw a layout showing compo	onent of diversion head work.	5
•	Dian a myou moning comp		
9.	Define :	2.1	. 5
	(i) Aquifer	1	
100	(ii) Aquiclude	= -	
	(iii) Porosity		
	(iv) Permeability		
	(v) Specific yield		
			. "
	Faces on 1991 of	PART – B	
10.		he working of floating type of autom	natic rain gauge and
	state its advantage and disadva	antage.	
11.	Explain the various factors aff	fecting Run off.	10
		6: 14	10
12.	Mention the various method o	r improving duty.	10
12	(i) What are the adventages	and disadvantages of Sprinkler irrig	eation. 5+5=10
13.		d area of a water course is 1200 he	
	sugarcane and wheat cr	ops are 20% and 40% respectively. the water course are 730 hectares	The duties for the coursec and 1800
	hectare/cumsec respecti water course.	ively. Find the discharge required	@ the head of the
14.	hectare/cumsec respecti water course.	r structural failures of earthen dam.	@ the head of the
14.	hectare/cumsec respecti water course.  Explain the various causes for	r structural failures of earthen dam.	
15.	hectare/cumsec respecti water course.  Explain the various causes for	r structural failures of earthen dam.	10
15.	hectare/cumsec respective water course.  Explain the various causes for With a neat diagram explain which a neat diagram explain to the course.	r structural failures of earthen dam. volute siphon spillway. the working of Aqueduct.	10 10
15. 16. 17.	hectare/cumsec respective water course.  Explain the various causes for With a neat diagram explain where the work was a second with a neat diagram explain to the work water course.	r structural failures of earthen dam.  volute siphon spillway.  the working of Aqueduct.  al head regulator.	10 10 10
15. 16. 17.	hectare/cumsec respective water course.  Explain the various causes for With a neat diagram explain which a neat diagram explain to With a neat diagram explain to With neat sketch explain canal write a short note on mainten	r structural failures of earthen dam.  volute siphon spillway.  the working of Aqueduct.  al head regulator.	10 10 10 10 10