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 $1\times3=3$

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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DCE - V SEMESTER EXAMINATION IRRIGATION ENGINEERING

Time: 3 Hours] [Total Marks: 80 PART - A $3 \times 10 = 30$ Instructions: (1) Answer ALL questions. (2) Each question carries THREE marks. (3) Answer should be brief and straight to the point and shall not exceed five simple sentences. 1 Distinguish between perennial and inundation Irrigation. 3 2 (a) What is M. F. D.? 1+2 State any two empirical formulae for the estimation of M. F. D. from a catchment. (a) What are marginal bunds? 2+1 3 (b) Why are they provided? (a) Define dam. 1+2 4 (b) List the different types of dams. What is a berm? 5 1+2 (a)

(b) State two advantages of providing berm.

State three duties of Water User Association.

Write a short note about rain water harvesting.

State classification of canals.

Define Watershed management.

List different methods of Irrigation.

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				PART - B	10×5=50	
Instructions: (1)			(1)	Answer any FIVE questions.		
			(2)	Each question carries TEN marks.		
			(3)	Answer should be comprehensive and for valuation is the content but not the answer.		
11	(a)	(a) State the relationship between duty, delta and base period. 3+7				
	(b)	(b) Explain the factors affecting duty of water.				
12	_	Explain the working of float type automatic rain gauge with 6+4 neat sketch.				
13	Describe with a neat sketch the component parts of a Weir. 7+3					
14	Wri	Write short notes on the following: $2\frac{1}{2} \times 4 = 10$				
	(a)	Scouring Sluice				
	(b)	b) Divide Wall				
	(c)	Fish lac	lder			
	(d)	Head R	egula	tor		
15	(a) (b)	•	•	nts necessary in a gravity dam? t types of joints and their purpose.	5+5	
16	` /	Explain the causes of failure of earth dams and their 10				
	-	preventive measures with neat sketches.				
17	•	eat sketch.	5+5			
	(a)	Super P				
	(b)	Siphon	_			
18	(a)	-	_	training works.	3+4+3	
	(b)	State objectives of River training works.				
	(c)	List different types of groynes.				

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