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V Semester Diploma Examination, Oct./Nov.-2019

WATER RESOURCE ENGINEERING

Tin	me: 3 Hours] [Max.]	Marks: 100
Not	te: (i) Answer any six questions from Part – A. Each question carries 05	marks.
	(ii) Answer any seven questions from Part – B. Each question carries	10 marks.
	PART – A	
1.	What are the objectives of Water Resources Development?	5
	항 공연생이다고 살이 얼마나 나왔다는 얼룩들이 나왔다. 어디에 아이나 아이나 아니다.	
2.	List any five advantages of Irrigation.	
3.	What is precipitation? Explain orgraphic precipitation.	5
4.	What are the factors affecting duty?	5
5.	Mention the factors to be considered for selection of site for a Dam.	5
6.	Explain the classification of canals based on discharge capacity.	5
7.	Write short note on maintenance of canals.	5
8.	Mention the effects of over exploitation of Ground Water Resources.	5
9.	Define cloud seeding. Explain briefly cloud seeding technique.	5
	1 of 2	[Turn over



PART - B

10.	List the types of Rain gauges and explain the working of Symon's Rain gauge with	ì
	neat sketch.	10

11. The Isohytel map of 24 hour storm gave the areas enclosed between different Isohytes, as follows:

Isohytes in mm	40	38	36	34	32	30	28
Enclosed area in sq. km.	72	102	216	310	379	419	488

Determine the average depth of rainfall over the catchment.

10

- 12. List the different methods of irrigation and explain drip irrigation with a neat sketch. 10
- 13. A water course has a culturable command area of 4000 hectors out of which the intensity of irrigation for perennial sugarcane and rice crop are 20% and 40% respectively. The duty of these crops at the head of the water course and 800 ha/cumec and 1900 ha/cumec respectively. Find the discharge required at the head of water course, if the peak demand in 20% of the average requirement.
- 14. What is meant by gravity dam? List the various forces acting on gravity dam. How do you estimate the water pressure in the design of gravity dam?
- 15. Define spillway. List the types of spillways and explain chute spillway with a neat sketch.
- What is Canal linking? What are it's advantages and disadvantages? List the methods of canal lining.
- State the different types of cross drainage works. Explain with a neat sketch the cross drainage work required when the canal runs over the drainage.
- 18. Explain canal head regulator with a neat sketch.

10

19. List different methods of artificial recharge. Explain ground recharge through wells. 10