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M.Sc. Semester-I Examination, 2022 (AGRICULTURE) IN AGRONOMY PAPER: AGRON 504

PG

(PRINCIPLES AND PRACTICES OF WATER MANAGEMENT)

CDOUD .

Full Marks: 50

Time: 2 Hours

 $10 \ge 2 = 20$

	<u>GROUP-A</u>	
1. Ansv	ver any <u>FIVE</u> questions from the following:	2 X 5 = 10
b. c. d. e. f.	Mention the role of water in plant? What is soil moisture potential? What is PET? Define hysteresis graph presentation. Define hygroscopic water. What is leaching requirement? In inter cropping why we use shallow rooted and deep-rooted crop	PORE CITY COLLEGE PROBLESTD 2017 CHUTRAL LIBRAR
	Mention critical growth stages of irrigation of wheat.	
	GROUP-B	
2. Ansv	ver any <u>FOUR</u> questions from the following:	5 X 4 = 20
b. c.	'Transpiration is a necessary evil'- explain briefly. Discuss fertigation along with merits and demerits of the system. Explain the thumb rule of soil moisture extraction pattern. What are the advantages of sprinkler method of irrigation?	

- e. Mention the problems associated with poor drainage.
- f. What are the water management practices in saline soil.
- g. How to increase the WUE of crops?
- h. Discuss the Blaney-Criddle methods of ET estimation.

GROUP-C

3. Answer any <u>TWO</u> questions from the following:

- a. Explain the water budget of India with proper schematic diagram. Discuss the border strip irrigation methods. (4+6)
- b. What do you mean by quality of irrigation? What the criteria are for determine quality of irrigation? What is the advantages of puddling. (2+4+4)
- c. What is irrigation scheduling? Write down the various approaches in irrigation scheduling briefly. (2+8)
- d. Short note (Any four): $(2.5 \times 4 = 10)$

I. Infiltration, II. Percolation, III. Seepage, IV. Osmotic potential, V. Drip irrigation.
