Regi	stra	tion no:										
Tota	l Nui	mber of Page	es: 02	210		210		210		210	B.TECH PCCI4305	210
210	A	nswer Oue	I stion No	RRIGA' BF 210 P Q 0.1 which	FION RANCI Time: Max M D. COD h is con	eack Exa ENGINI H: CIVI 3 Hours (arks: 70 DE: W20 mpulsory	EERIN L 0 y and a	G 210 any five f	from th	210	est.	210
Q1210	a) b)	Answer the f What are the What are the	objective	es of comm	nand are	ea developsidered for	ment?	ng an idea	ıl croppi	210 ng	(2 x 10)	210
210	c) d) e) f) g) h) i)	pattern in a g Distinguish b What is cons How can a w What is the p What is Blig What are the What is Wate What are the	cetween of sumptive vater logg ourpose of h creep the criteria fershed ca	? luty and or use of wat ed land be f providing teory? for safe designal?	utlet dise er? made u g a cross sign of e	charge factors drainage earth dam?	or. ultivatio	on?		210		210
Q2 210	a) b)	Describe <sub>210</sub> vodisadvantage The field cap are 35 and 1 given soil is water. Assur of water was	es and appoacity and of percental 20 percental pulls and appointmental a	olicability I permane t, respecti nt when a t specific s	to differ nt wiltin vely. A farmer gravity o	rent field cong point for a given irrigates that of the soil	ondition r a giver time the se soil was 1.6, d	o 0.8 m roo soil mois with 250 m	ot zone s sture in t m depth	oil the of	(6) (4)	210
Q3°	a) b)	Design a cha critical veloc respectively. What is can	Assume	and manr the bed sl	opes 1 in	n 5000 and	n is equ	iai to 1.0	and 0.02	ith .25	(7)	210
Q4 210	a) b)	What is a sidesign proce With the hel work.	uper-pass	age? Drav	w a nea	t sketch o		210		210	(5) (5)	Page 1 012

210		210	210	210	210	210		210	
Q5	a)	Explain Khosla's corrections for (i) interference of piles	thickness of				(6)		
	b)	What is the necessit		canal? How do yo	u select its locati	on?	(4)		
Q6	a)	Describe different		ntrolling seepage	through an em	bankment	(6)	210	
210	b)	dam and its foundation. 210 210 210 210  For a homogeneous earth dam 50 m high, and 2 m freeboard, a flow net was constructed and following results were obtained.  Number of potential drops = 25  Number of flow channels =4  The dam has a horizontal filter of 40 m length and its downstream end.							
		Calculate the disch	arge per mete	er length of the			*		
210		permeability of the	dam is $3 \times 10^{-3}$ c	m/sec.	210	210		210	
Q7	a) b)	Explain the step by Explain the function different types of requirements.	ns of different	components of a	spillway and suit	tability of nd other	(5) (5)		
08		Write short notes on	any two of the	following			$(5 \times 2)$		
Q8 210	a) b) c)	Write short notes on Frequency of irrigat Garret's diagram Causes of failure of	ion 210	e following	210	210	(5 x 2)	210	
	b)	Frequency of irrigat Garret's diagram	gravity dam		210	210	(5 x 2)	210	
	b) c)	Frequency of irrigat Garret's diagram Causes of failure of	gravity dam		210	210	(5 x 2)	210	
	b) c)	Frequency of irrigat Garret's diagram Causes of failure of	gravity dam		210	210	(5 x 2)	210	
210	b) c)	Frequency of irrigat Garret's diagram Causes of failure of Surface and sub-sur	gravity dam face drainage	210			(5 x 2)		
210	b) c)	Frequency of irrigat Garret's diagram Causes of failure of Surface and sub-sur	gravity dam face drainage	210			(5 x 2)		