	210	210	210	210		210	210		210
Reg	istration No.								
Tota	al Number of Pa	ges:02					ſ	B.Tech	
	210		ter Regular				210	0101100	21(
		WALLE	BRAN	MCH:CIVIL					
				//arks: 100 :: 3 Hours					
۸۰	nswer Question	No 1 (Part-		e: HRB223	any oigh	nt from D	art-II and a	ny two	
AI	210	210	210 fron	n Part-III.		210	210	ily two	210
		The figures	in the right l Pai	_	n indicat	e marks.			
Q1			nswer Type (Questions (A		AII-10)		(02x10)	
a) b)	Write the basic What is pH valu			water dema	nd.				
c)	How is the B-co	oli index dete	ermined?	f4 4b		- 4144			
d)	Define Hydraul particles in a ta		210 E. State the	210	e oppos	210 Set	Jement of 210		210
e) f)	Write the efficie How do you diff	•		_			bidity.		
g)	How does the F	an pattern c	of refuse colle	ction functior	า?				
h) i)	Why do you nee What is a skimr		mber in prima	ary waste wa	ter treatn	nent syste	·m?		
j)	Define sludge d	lewatering.	040	4 11 040		040	04.0		04/
00	Only Focuse	210 ed-Short An	²¹⁰ Par swer Type Q	-	Answer .	210 Any Eigh	t out of	(06x08)	210
Q2	Give an idea for		Twe	lve)				,	
a) b)	Find out the hea		•	•					
	Friction factor = rising main=500	•		•	0 litres p	er minute	, length of		
c)	Illustrate the red	quirements o	of portable or	wholesome \		210	210		210
d)	In a water treater respectively 7.5	•	•		_	_			
- \	average pH val	ue of water.							
e)	A settling tank i specific gravity								
	discrete particle Assume ideal s			with specifi	c gravity	1.20 by	this tank.		
f)	Discuss in detai	I the slow sa	nd filters with		their ess	ential part	s, working		210
g)	and cleaning, ra A town having p			•	plied wat	ter at the r	ate of 150		
3)	litres per capita	per day. The	e disinfection of	of water is to	be carrie	d out with	bleaching		
	powder contain infection is 0.3 p	•					•		
h)	Classify the sys	stems of sew	erage. Illustra	ate their adva	antages a	and disadv			210
i)	List all the requ	11 5 10 11 11 15 10 1	a typical was	ole walei liec	aunent pl	all.			

210		210	210	210	210	210	210	210
210	Q3 Q4 Q5	What are the did Discuss the factor of the Discuss the de Classify and de Enumerate the	design aspects ctors those afform those afform the sign aspects constituted as favourable contacts that the meter favourable contacts the sign as favourable contacts and for an aspects.	of trickling filter ect sludge dige Part-I pe Questions of continuous flethods of layou anditions for se average flow	ers? estion. II (Answer Any low type sedim t of water distr werage.		our) ₂₁₀ (02	X16) ₂₁₀
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210