<b>Q.P. Code:</b> 19CE0144`			R19
Reg. No:			
SIDDHARTHI	NSTITUTE O	F ENGINEERING & TECHNOLOGY	I:: FUITUR
D Teeh IV Veer I	Someotor D	(AUTONOMOUS)	aambar 2022
		egular Examinations November/De	
DESI	IGN & DRAW	ING OF IRRIGATION STRUCTURE	2
		(Civil Engineering)	
Time: 3 hours			Max. Marks: 60
	(Answer	ll Five Units $1 \times 12 = 60$ Marks)	
Design a Canal drop of			L4 60M
Hydraulic particular	rs of the canal	above drop :	
Full supply discharge		n <sup>3</sup> /s	
Bed width	: 6.00	m	
Bed level	: +10.	00	
Full supply depth	: 1.50		
F.S.L	:+11.		
Top of bank 2m wide			
Half supply depth	: 1.00		
Hydraulic particular			
Full supply discharge			
Bed width	: 6.00		
Bed level	: +8.00		
Full supply depth	: 1.5 m		
F.S.L Top of book 2m wide	:+9.5(		
Top of bank 2m wide Good soil is available			
Draw to a suitable sca		at . +8:50	
i) Plan	ne.		
ii) Half sectional eleva	ation		
iii) longitudinal sectio		he drop wall	
)8	(	OR	
Design a Tank sluice v	with tower head	for the data given below	L4 60M
Ayacut to be irrigated		: 200 ha	
Duty		: 1000 ha/cumec	
Top width of the tank	bund	: 2 m with 2:1 side slopes	
The top level of bank		: +40.00	
The ground level at the site		: +34.50	
Hard soil for foundation		: +33.50	
The sill of the sluice at		: +34.00	
The maximum water le	evel of the tank		
The Full tank level		: +37.00	
Average low water lev	vel of the tank	: +35.00	
The channel bed level		: +34.00	
Full supply level		: +34.50	
Bed width		: 1.25 m	
Side slopes of channel		: 1.5  to  1  with top of bank at  +35.50	
Draw the Following:	olf plan at farm	dation loval	
i) Half plan at top & h ii) Longitudinal section			
n) Longituumai sectio.	n unough the t	*** END ***	

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