7.	(a)	What are the requirements of any canal
		outlets? Discuss various types of canal
		outlets with the help of sketches. 10

(b) Explain A.P.M. outlet with the help of sketch.

8. Differentiate between:

- (a) Aqueduct and Syphon Aqueduct
- (b) Super Passage and Canal Syphon
- (c) Type I and Type II Aqueduct.

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B. Tech. EXAMINATION, Dec. 2018

(Seventh Semester)

(Old Scheme) (Re-appear Only)

(CE)

CE405

IRRIGATION ENGINEERING

Time: 3 Hours [Maximum Marks: 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt any *Five* questions. Assume any data if missing.

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1.	(a)	What do you understand by total plan	ning	4.	(a)	How spillway are classified ? Describe
		concept of any irrigation project? Exp				various types of spillways. 10
		the factor considered for any irriga			(b)	What is Stilling Basin? Describe with
		project.	10			sketches different types of stilling basins.
(b)		Explain the terms:				10
		(i) Flow Irrigation				
		(ii) Lift Irrigation		5.	(a)	Explain canal diversion and its
		(iii) Perennial Irrigation				components with the help of neat
		(iv) Sprinkler Irrigation.	10			sketches. 10
		(iv) Sprimiter in gavion.			(b)	What is meant by river training? List
2.	(a)	What is Canal Lining? List the var	rious			various types of objective of river
		types of lining. Discuss the silent feat	tures			training. Write a note on guide banks
(b)		of cement concrete lining.	10			used for river training works. 10
		Explain water logging, its effects, ca	uses			
		and remedial measures.	10	6.	(a)	With the help of neat skteches explain
•	(-)	What is a Dames 2 Harris it diff.				the working of the following components
3.	(a)	What is a Barrage? How is it difference as a Familian arrange of the second of the sec				of weir : silt excluder and fish ladder.
		from weir? Explain various types				10
		barrage in India.	10	(b)		What is fall or drop? Write the necessity
	(b)	Write a note on Khosla's theory of de	esign		` /	of falls. Classify various types of falls.
		of weir on foundation.	10			10
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