TUTE OF	CBCS SCHEME	
USA		15CV832
Eighth Semester	B.E. Degree Examination, July	y/August 2021
* CWB	Hydraulic Structures	
Time: 3 hrs.		Max. Marks: 80

Note: Answer any FIVE full questions.

1	a. b.	What forces act on gravity dam? Explain with help of diagram. What is a Drainage gallery? What methods are employed for calculating the reuplift force?	(10 Marks) eduction in (06 Marks)
2	a.	What is an elementary profile of a gravity dam? What modifications are made	
	b.	practical profile? Brief out design of low gravity dam.	(08 Marks) (08 Marks)
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3	a.	What are the various causes of failure of an earth dam? Explain with the help of n	eat sketch. (12 Marks)
	b.	What are the advantages and limitations of earth dam?	(04 Marks)
4	a.	What are the criteria for safe design of earth dam?	(08 Marks)
	b.	Explain the phreatic line in earth dams with filters.	(08 Marks)
5	a.	Draw neat diagram of Ogee spillway and explain its design criteria.	(10 Marks)
	b.	Explain energy dissipation method to protect the stream bed below spillway.	(06 Marks)
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6	a. b.	Write a brief note on Khosla's theory of design of weir on permeable foundation. List the limitations of Bligh's Creep theory.	(08 Marks) (08 Marks)
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7	a.	What is meant by Cross drainage work? Describe with the help of neat sketch va	
	b.	of cross drainage work. Write a note on Inlet and Outlet.	(12 Marks) (04 Marks)
	U.	write a note on finet and Outlet.	(04 Mai K5)
8	a.	Explain the Design consideration for aqueducts.	(12 Marks)
	b.	Write a note on level crossing.	(04 Marks)
9		What is an Canal outlet? Write the requirement of a good outlet.	(06 Marks)
9	b.	What are the different types of outlets?	(10 Marks)
	٠.	What are the different types of ounets? CMRIT LIBRARY BANGALORE - 560 037	,
10	a.	What is a fall in a canal? Why it is necessary to provide a fall in a canal?	(06 Marks)
	b.	Describe briefly with neat sketch, the different type of falls (any four types).	(10 Marks)
