No. of Printed Pages: 2

ET-535(B)

B.Tech. Civil (Construction Management)

Term-End Examination

00955

June, 2014

Tin	ne : 3	hours Maximum Marks:	Maximum Marks: 70	
No		Attempt any five questions. All questions carequal marks.	rry	
1.	(a)	What do you mean by Reservoirs? Explain the procedure of preparation of capacity curve of reservoirs.	7	
	(b)	Define mass curve. Explain the use of mass curve to determine the possible yield from a reservoir of specified capacity.	7	
2.	(a)	Describe the various forces acting on a gravity dam.	7	
	(b)	Discuss the causes of failure of gravity dam.	7	
3.	(a)	Explain the various factors required to be considered in the selection of the type of dam.	7	
	(b)	Describe briefly the foundation treatment for a rockfill dam.	7	

4.	(a)	Explain headworks. What are the various stages of a river where headworks may or	
		may not be located?	7
	(b)	Define "Exit Gradient". Explain the formula used for determining its value.	7
5.	(a)	Draw a schematic layout of a Canal Distribution System and explain the functions of its various parts.	7
	(b)	Describe the design of unlined channel by Lacey's theory.	7
6.	(a)	What do you mean by Flexibility and Sensitivity of an outlet? Derive the relationship between the two.	7
	(b)	Discuss the necessity of cross-drainage works.	7
7.	Wri	te short notes on the following: $4 \times 3 \frac{1}{2} = 1$	14
	(a)	Corrections applied in Khosla's theory	
	(b) ·	Uplift pressure	
	(c)	Level crossing	
	(d)	Canal Head Regulator	
8.	Differentiate between the following: $4 \times 3 \frac{1}{2} = 14$		
	(a)	Reservoir capacity and Reservoir yield	
	(b)	Low and High Gravity Dams	
	(c)	Inundation and permanent canals	
	(d)	Aqueduct and Syphon Aqueduct	