P4509

SEAT No.:		
[Total	No. of Pages	:2

M. E. (Civil) Water Resources and Environmental Engineering DAM ENGINEERING (2013 Pattern) (Semester - III) (601093)

Time: 3	B Hours] [Max. Mar	ks :50
Instructi	ions to the candidates:	
1)	Answer any FIVE questions.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right side indicate full marks.	
<i>4</i>)	Use of Calculator is allowed.	
5)	Figures to the right side indicate full marks. Use of Calculator is allowed. Assume suitable data, if necessary.	
Q1) a)	Explain design of concrete dams.	[4]
b)		[6]
Q2) a)	What are basic principles of dam design? Explain step by step proce	edure
~ /	for design of earthen dam.	771
b)	Discuss stability analysis for sudden drawdown case in earthen day	m.[3]
Q3) a)	Explain any one theory for design of arch dam.	[7]
b)	State various forces acting on arch dam with neat sketch.	[3]
Q4) a)	Explain various types of rock fill dams and draw the sketch of o	ne of
~ /	them.	[6]
b)	What is buttress dam? Explain the classification of buttress dam.	[4]
Q5) a)	Explain straight drop spillway and ogee spillway.	[6]
b)		[4]

(20) a) b)	Explain determination of settlement and lateral movements in dam.	[4]
U)	Explain determination of settlement and lateral movements in dam.	[4]
Q7) a)	State objectives of Central Water Commission.	[4]
b)	Explain functioning of Global Water Partnership (GWP).	[6]
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Q8) a)	How does global warming increased by large dams?	[6]
b)	What is the impact due to construction of dam on displacement and	
	rehabilitation?	[4]
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