Time: 3 hours

Maximum Marks: 70

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

DD832 December, 2017

BICEE-015: WATER RESOURCES SYSTEM PLANNING AND DESIGN

Noi	te :	equ	ali	mark	s. As	sum	_	ssinį	g data	_		s carry Use o	
1.		escri	be t		vsten	ns pl	-		pproa	ch i	n wat	er <i>10</i>	= 0
2.		_		in ent al		-		, 1	water	1	esour	ce 10)
3.			_						and e engin			ric <i>10</i>)
4.									c pla nginee		_	nd <i>10</i>)

5.	Explain with the help of an example, the problem formulation in a water resources system.								
6.	What do you understand by multi-objective planning? Explain with the help of a relevant case study.								
7.	What are the various design and management issues faced by water resources engineers?								
8.	Discuss the hierarchical approach of ground water systems planning.	0							
9.	What is the necessity of ground water system planning?								
10.	Write short notes on any four of the following: $4\times 2\frac{1}{2}=10$								
	(a) Demand Analysis								
	(b) Subsystems Planning								
	(c) Optimization Methods								
	(d) Conjunctive Development								
	(e) Water Quality Management Planning								