## B.E. (Civil Engineering) Seventh Semester (C.B.S.) **Elective - I : Sustainable Resource Management in Civil Engineering**

P. Pages: 1 Time: Three Hours		* 0 2 3 2 *			NRT/KS/19/3522 Max. Marks : 80	
	Notes: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks Solve Question 1 OR Que Solve Question 3 OR Que Solve Question 5 OR Que Solve Question 7 OR Que Solve Question 9 OR Que Solve Question 11 OR Que Due credit will be given t Assume suitable data who Illustrate your answers will	estions No. estions No. estions No. estions No. estions No. uestions No. to neatness enever nece	<ul><li>2.</li><li>4.</li><li>6.</li><li>8.</li><li>10.</li><li>12.</li><li>and adequate dimensions.</li></ul>		
1.		Define sustainability. Explain the need of sustainable resource management in civil engineering.				
2.		OR Explain the need of energy saving through the use of alternative green construction materials.				
3.	Explair	Explain concept of zero waste Production in construction engineering. <b>OR</b>				
4.	Explain	Explain about alternative building materials such as CMB, AAC Blocks.				
5.	Write a	Write an explanatory note on sustainable water management.  OR				
6.	Explain	Explain about Grey water treatment.				
7.		notes on eothermal energy.	ii) <b>Ol</b>	Solar energy.	14	
8.	Explair i) Er	n nergy conservation.	ii)	Introduction to ECBC.	14	
9.	What p	ecautions of health should be taken during the construction work?  OR				
10.	Explain the terms, effective temperature dry bulb temperature, wet bulb temperature and relative humidity.				and 13	
11.	Define Alterati					
12.	Explain	1	Ol	₹		
-#•	-	rovision of National Buildir	ng code		7	
		fe cycle costing.	. <sub>5</sub>		7	

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