B.E. Seventh Semester (Civil Engineering) (C.B.S.)

Elective - I: Sustainable Resource Management in Civil Engineering

P. Pages: 1 NKT/KS/17/7438 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. 5. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. What are sustainable goals? Who has prescribed these goals. 13 OR What are the techniques adopted in managing resources in construction Industries. 13 Explain in detail the concept of zero waste production in construction engineering. 14 **3.** OR How the industrial waste can be utilized in construction industries? Explain with 14 4. examples. Enumerate 3R of water conservation and explain them in detail. 13 5. OR What is grey water? Why and how it is treated. 13 6. What are the disadvantages of Non-renewable energy sources? Explain the effects on the 13 7. human health. OR Enumerate various renewable energy sources. Explain their potential with reference to 8. 13 Indian conditions. Discuss any seven human health issues related with construction activity. 14 9. OR 10. Discuss effect of light, heat and humidity on human health. 14 Enumerate and discuss the provisions of National Building codes for Life Cycle Costing. 11. 13 OR 13 What are the different techniques adopted for Life cycle costing? 12. ******

NKT/KS/17/7438

www.solveout.in