## BE-sean-VIII (014) cheanical- Environmental Eagg Environmental Engineering. 2/12/16 Q.P. Code: 616001 (3 Hours) [ Total Marks: 100 Question No. 1 is compulsory. N.B.: 1. Answer any four out of remaining questions. 2. www.a2zsubjects.com Figures to the right indicate full marks 3. 1 Attempt any four 20 The Hydrological cycle www.a2zsubjects.com 1) Noise pollution 2) Classification of solid waste 3) Temperature Lapse rate Stability in meteorology Water Act (Prevention &control of pollution Act) 5) How water pollutants are classified? List the major water pollutants, explain 2 (a) 10 any one in detail (b) How the Air pollutants are classified? List the major types of Air pollutants, 10 briefly 3. (a) Explain in detail activated sludge process 10 (b) List the treatment methods for hazardous solid waste. Explain any one 10 method in detail. 4. (a) What are different control methods used for air pollution control? Explain 10 any one in detail. (b) Describe the factors affecting the dissolved oxygen in river water& derive 10 an expression for dissolved oxygen sag curve. www.a2zsubjects.com Classify & explain the types of ponds &lagoons used for domestic waste 5 (a) 10 water treatment. (b) Explain in brief the "Sanitary Landfill "used for solid waste management. 10 Draw the composition pro main gases during refuse digestion in landfill. Explain in brief COD test carried out in Laboratory. 6 (a) 10 (b) Draw & Explain construction & working principle of cyclone separator. 10 7. Write a short note on following: 20 www.a2zsubjects.com 1) Global warming 2) Nitrogen cycle in Biosphere 3) Anaerobic treatment of solid waste. 4) Trickling filter.