BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION MO2022)

MTECH/MSC/IMSC/MUP/PRE-PHD CLASS: SEMESTER: III/I/VII **BRANCH:** CAAD/MECH/BT/CSE/IT/RS/SAC/ICH/IFT/IMH/ARCH **SESSION: 2022-23** SUBJECT: CE577 INDUSTIAL POLLUTION CONTROL TIME: 03 Hours **FULL MARKS: 50** INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates ______ Q.1(a) Define industrial pollution and pollutants? CO1 K1 [2] Discuss any one type of air pollution disaster in industry? CO1 K2 [3] Q.1(c) Describe the air pollution caused by the Cement industry and their control techniques? CO1 K3 [5] Q.2(a) Outline five constituents of aquatic environment? CO2 K1 [2] Discuss the effect of oxygen demanding industrial waste on natural water and aquatic life? Q.2(b) [3] CO2 K2 Q.2(c) Describe the industrial wastewater treatment in textile industry with a flow diagram? CO2 K3 [5] Define and classify the solid waste? CO3 K1 Q.3(a) [2] Interpret the environmental impact of industrial solid waste dumps on ecosystem and humans? CO3 Q.3(b) Q.3(c)Describe the sanitary landfill method with a neat sketch? CO3 K3 [5] What do you mean by the concept of industrial ecosystem? CO4 K1 [2] Illustrate the cleaner production in industry and waste minimization with an example? CO4 K2 [3] Describe land degradation due to industrialization? Discuss eco restoration and land reclamation Q.4(c)techniques? CO4 K3 Q.5(a) Define occupational diseases? CO5 K1 [2] Q.5(b) Write a short note on OSHA and ISO18000? CO5 K1 [3]

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Q.5(c) Describe three occupational diseases with their possible symptoms and target organs? CO5 K2