

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

**CLASS: MSC/M.TECH  
BRANCH: BIOENGG/REMOTE SENSING**

**SEMESTER: II  
SESSION: SP/2025**

**SUBJECT: CE577 INDUSTRIAL POLLUTION CONTROL (OPEN ELECTIVE)**

**TIME: 3 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. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data handbook/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a)	Define Industrial Pollution. Discuss three air pollution disasters of industry?	[5] 1	K1
Q.1(b)	Describe air pollution sources and control in Cement industries?	[5] 1	K2
Q.2(a)	Discuss industrial uses of water and constituents of aquatic environment?	[5] 2	K2
Q.2(b)	Describe the wastewater management in textile/paper and pulp industries with a process flow diagram?	[5] 2	K3
Q.3(a)	Classify solid waste? Enlist two major impact of industrial solid waste on ecosystem and humans?	[5] 3	K1
Q.3(b)	Describe sanitary landfill disposal method with a neat sketch?	[5] 3	K2
Q.4(a)	Define land degradation? Discuss the reclamation techniques?	[5] 4	K2
Q.4(b)	Discuss the concept of cleaner production in industries with one example?	[5] 4	K3
Q.5(a)	Describe the industrial safety standards and management systems and its significance?	[5] 5	K2
Q.5(b)	Discuss five notifiable occupational diseases with their target organs and symptoms?	[5] 5	K2

:05/05/2025:E