

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

CLASS: MCA/PRE-PHD
BRANCH: MCA/CS

SEMESTER : IV/NA
SESSION : SP/19

SUBJECT: TES2011 INDUSTRIAL POLLUTION AND CONTROL

TIME: 3.00 HOURS

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 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 hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Identify the major areas to be focused for minimization of industrial pollution in India. [6]
Q.1(b) Outline the concept of Air Quality Index and its associated health impacts. [6]
- Q.2(a) Recognize the major environmental pollution occurring in the cement manufacturing process. [6]
Q.2(b) Summarize the different methods of gaseous pollutant control in industries. [6]
- Q.3(a) Discuss the different vertical zones of a lentic water system and correlate it with the thermal stratification. [6]
Q.3(b) Explain the coagulation-flocculation process of wastewater treatment. [6]
- Q.4(a) Enlist the factors affecting the distribution of contaminants in soil and the related risk of exposure. [6]
Q.4(b) Enlist the diseases caused in human beings due to soil pollution from industries. [6]
- Q.5(a) Review the different types of hazards in industries, which can cause severe health implications. [6]
Q.5(b) Outline the process of hazard analysis in industries. [6]
- Q.6(a) Discuss the effect of extraneous factors on industrial toxicity. [6]
Q.6(b) Describe the exposure, toxic effects and symptoms of Hg poisoning. [6]
- Q.7(a) Define sustainable development and discuss the factors of sustainable development. [6]
Q.7(b) Write about the wasteland reclamation process. [6]

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