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

CLASS: B.TECH/BARCH   SEMESTER: III
BRANCH: PROD/MECH/CHEM.ENGG/CEP&E/BT/CIVIL   SESSION : MO/2019

SUBJECT : CE101 ENVIRONMENTAL SCIENCE

TIME: 1.5 HOURS   FULL MARKS: 25

INSTRUCTIONS:
1. The total marks of the questions are 25.
2. Candidates may attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.

Q1   (a)   Classify components of environment with suitable examples.   [2]
     (b)   Illustrate pond ecosystem with respect to energy flow, material flow and interaction   [3]
           among the components.

Q2   (a)   An organism occupies multiple trophic levels in a food web. Illustrate this statement with   [2]
           the help of a food web schematic.
     (b)   Define and compare the terms biodegradation, biomagnifications and bioaccumulation.   [3]

Q3   (a)   What is the basis of classification of air pollutants? Discuss.   [2]
     (b)   Describe criteria air pollutants and their sources with possible health effects.   [3]

Q4   (a)   Explain photochemical reactions in atmosphere which lead to photochemical smog   [2]
           formation.
     (b)   Choose air pollution control methods for particulate controls for thermal power plants.   [3]

Q5   (a)   Classify different types of water pollutants. Explain with example.   [2]
     (b)   Identify the major sources of water pollution and the problem associated with them.   [3]

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