

# JK LAKSHMIPAT UNIVERSITY, JAIPUR

## INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/ Backlog), April-May 2018

B. Tech/ M. Tech (as applicable) in CHE, CE, ME, CSE Engineering, Semester ...II...

Roll No.....

COURSE CODE: ID 201

Time: 3 hours

Max. Marks: 100

COURSE TITLE: Environment Studies

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### Instructions to students:

1. Do not write anything other than your roll number on question paper.
  2. Assume suitable data wherever required and mention it clearly.
  3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
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- Q.1A Objective type multiple choice questions (10 questions @ 1 mark) 10
- i. Which statement true with regard to ecosystem
    - a- An interaction between ecosystem and its environment
    - b- An ecosystem same as population
    - c- An ecosystem is a region in which living organism interact with their environment.
    - d- All of the above
  - ii. STP is
    - a- sewage treatment plant
    - b- secondary treatment plant
    - c- systematic treatment plant
    - d- None
  - iii. Which country expected to have the largest population by 2050
    - a- china
    - b- India
    - c- brazil
    - d- none
  - iv. Carcinogenic agents or chemicals in water causes
    - a- cancer
    - c- liver cancer
    - d- bone damage
    - d- All of the above
  - v. Minimata disease is
    - a- related to water pollution
    - b- actaldehyde is main pollutant
    - c- both a & b
    - d- None
  - vi. Sustainable development is related to
    - a- reasonable uses of sources
    - b- Green technology
    - d- follow 3 R
    - d- All of the above
  - vii. Value of Biodiversity define
    - a- ecological value
    - b- commercial value
    - c- both a & b
    - d- None
  - viii. A food chain is contain
    - a- producer
    - b- consumers
    - c- decomposer
    - d- Both a & b
  - ix. PAN composition is
    - a- hydrocarbons
    - b- oxide of nitrogen
    - c- ozone
    - d- all of the above
  - x. If the water sample has shown low level of dissolved oxygen (DO) than BOD level of water sample is
    - a- high
    - b- low
    - c- not changed
    - d- none

|      |                                                                                                                                             |    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|----|
| Q.2  | Short answer type questions (4 questions @ 2.5 marks)                                                                                       | 10 |
| 1.   | Explain energy and biomass pyramid with suitable example .                                                                                  |    |
| 2.   | Short note on types of waste.                                                                                                               |    |
| 3-   | Short note on (a) red book (b) cyclone separator                                                                                            |    |
| 4-   | Write a note on a eutrophication of lakes.                                                                                                  |    |
| Q.3A | Due to various human activities noise pollution increase give a specific note on sources, impact on human health and how we can control it. | 05 |
| Q.3B | Discuss the Sulphur cycle with flow diagram.                                                                                                | 05 |
| Q.4A | Our biodiversity decreases very rapidly how do you conserve it?                                                                             | 05 |
| Q.4B | Describe the trend on water utilization in India                                                                                            | 05 |
| Q.5A | Discuss the impact of human activities on water resources.                                                                                  | 05 |
| Q.5B | (a) environmental awareness (b) Hot Spot                                                                                                    | 05 |
| Q.6A | Give brief note on sustainable development and how the sustainable development is helpful for protection of environment                     | 05 |
| Q.6B | Discuss the waste water treatment method through flow diagram.                                                                              | 05 |
|      | OR                                                                                                                                          |    |
| Q.6B | Population, consumerism and waste production are interrelated give your comments.                                                           | 05 |
| Q.7A | What is meant by POPULATION EXPLOSION? Discuss the Indian scenario.                                                                         | 05 |
| Q.7B | Explain the food chain and food web with suitable example and how food chain important for ecosystem.                                       | 05 |
|      | OR                                                                                                                                          |    |
| Q.7B | Discuss the human activities impact on the world environment.                                                                               | 05 |
| Q.8A | Discuss the ex-situ and in-situ method for biodiversity conservation and give advantage and disadvantage.                                   | 10 |
| Q.9A | Discuss the various renewable sources of energy to full fill the energy requirement of India.                                               | 10 |
| Q.9B | Discuss the various pollutants in detail and discuss their impact on human and environment.                                                 | 10 |
|      | OR                                                                                                                                          |    |
| Q.9B | What are greenhouse gases and greenhouse effect? Discuss the potential and contribution of these gases to global warming phenomenon.        | 10 |