

**MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR**  
**SEMESTER END THEORY EXAMINATION, B.TECH. (D.T.) DEGREE COURSE 2017-18**

<b>Semester</b>	<b>: I (New Syllabus)</b>	<b>Academic Year</b>	<b>: 2017-2018</b>
<b>Course No.</b>	<b>: DBM-103</b>	<b>Course Title</b>	<b>: Environmental Studies</b>
<b>Credits</b>	<b>: 2+1=3</b>	<b>Total Marks</b>	<b>: 50</b>
<b>Day &amp; Date</b>	<b>: Wednesday, 10.01.2018</b>	<b>Time</b>	<b>: 11.00 to 13.00 Hrs.</b>

- Note :** 1) All questions from **Section 'A'** are compulsory.  
2) Solve **Any Five** questions from **Section 'B'**.  
3) Draw neat and well labelled diagram wherever necessary.

**SECTION – 'A'**

Q. 1. A) Choose the most appropriate answer from the options given below. (05)

- i) Due to global warming, following effect is seen on ozone .....
  - a) Increase in ozone content
  - b) Ozone content remaining same
  - c) Ozone depletion
  - d) None of these
- ii) This is not biotic component of ecosystem .....
  - a) Producers
  - b) Macro consumers
  - c) Micro consumers
  - d) Inorganic substances
- iii) This is not a biochemical cycle .....
  - a) Oxygen cycle
  - b) Carbon cycle
  - c) Phosphorous cycle
  - d) Nitrogen cycle
- iv) This does not represent merit of renewable energy .....
  - a) Reliable and requires low maintenance
  - b) Devices are modular in size
  - c) Environment friendly
  - d) Limited supply
- v) The main constituent of atmosphere is .....
  - a) Oxygen
  - b) Argon
  - c) Nitrogen
  - d) Carbon dioxide

B) Define the following terms. (05)

- i) Environment
- ii) Environmental pollutions
- iii) Noise pollution
- iv) Solid waste
- v) Anaerobic digestion

Q. 2 A) Give any two examples each for the following. (05)

- i) Modern environmental hazards
- ii) Fossil fuels
- iii) Methods of measuring concentration of organic matter in waste
- iv) Two base components of ecosystem
- v) Basic natural resources

(P.T.O.)



- B) State True or False. If false, rewrite the statement after making necessary corrections. (05)
- i) Protein and carbohydrates are inorganic substances
  - ii) Minerals are nonrenewable resources supplied by planet earth to mankind
  - iii) Carbon monoxide is a predominant greenhouse gas whose concentration in the atmosphere has been increasing with rapid industrial growth
  - iv) COD is always higher than BOD because much of the inorganic matter can be oxidized chemically but cannot be oxidized biologically.
  - v) Soil is made up of only biotic component.

### SECTION - 'B'

- Q. 3 Describe in detail the ecosystem with its different types. (06)
- Q. 4 Explain biochemical cycle in detail with example. (06)
- Q. 5 Describe management of dairy effluents. (06)
- Q. 6
- a) Enlist legal laws to control environment pollution. (02)
  - b) Write short note on water pollution (02)
  - c) State various natural resources and their use (02)
- Q. 7
- a) Describe radioactive pollution (03)
  - b) What is recycling of factory effluent (03)
- Q. 8 Write explanatory notes on following.
- a) Management of urban waste water. (02)
  - b) Microbial examination of effluents. (02)
  - c) Air pollution. (02)
- Q. 9
- a) State sources of soil pollution. (02)
  - b) Describe composting of biological wastes. (04)

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