



NAO-003-001633

Seat No. _____

B. Sc. (CBCS) (Sem. VI) Examination

March / April - 2017

Microbiology : Paper - MB - 603

(Environmental Sciences)

Faculty Code : 003

Subject Code : 001633

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :**
- (1) All questions are **compulsory**.
 - (2) Draw neat diagram wherever is required.
 - (3) Figures on **right** indicate marks.

1 Answer the following : 20

- (1) Enlist various non conventional energy resources.
- (2) What is NTFPs ?
- (3) Define : OTEC
- (4) Define : Ecological succession.
- (5) What is keystone species ?
- (6) What do you mean by second order carnivores ?
- (7) Give an example of an artificial ecosystem.
- (8) _____ Convention was signed for conservation of Wetlands in 1972.
- (9) Define: Protected areas.
- (10) What do you mean by endemic species ?
- (11) Write full form of CITES.

- (12) Enlist biodiversity hotspots located in India.
- (13) _____ is an exotic species which is also known as Congress Grass.
- (14) Jim Corbett National Park is located in _____ state of India.
- (15) The remarkable book entitled Silent Spring (1962) was written by _____.
- (16) Define: Recalcitrant Compounds.
- (17) What is NIPTS with reference to noise pollution ?
- (18) Define: Global Warming.
- (19) Central Pollution Control Board was established under _____ Act.
- (20) World Ozone Day is observed on _____ every year.

2 (a) Answer specifically : (any **three**) **6**

- (1) Write a brief note on HDI.
- (2) Discuss in brief Integrated Crop Management.
- (3) Write a note on water cycle.
- (4) Discuss the difference between Food web and Food chain.
- (5) What do you mean by Sustainable Development ?
- (6) Write in brief on Genetic Diversity.

(b) Answer Specifically : (any **three**) **9**

- (1) Enlist various problems associated with Dams.
- (2) Write a note on biomass energy.
- (3) Discuss in brief Ecosystem degradation.
- (4) Write a note on energy pyramids.
- (5) Write in brief on Ecological succession
- (6) Write a note on Biogeographical zones of India.

(c) Write short notes : (any **two**) **10**

- (1) Discuss in detail Solar energy.
- (2) Describe in detail Forest Functions.
- (3) Write an essay on Structure of ecosystem.
- (4) Write a note on energy flow in ecosystem.
- (5) Describe in detail Threats to biodiversity.

3 (a) Answer specifically : (any **three**) **6**

- (1) Give any two examples of Biosphere reserves found in India.
- (2) What is Temperature inversion ? How it affects atmosphere ?
- (3) What is the difference between London Smog & Los Angeles Smog ?
- (4) What do you mean by Green field projects ?
- (5) Define: BOD. How indicates water quality ?
- (6) Write in brief on nuclear holocaust.

(b) Answer specifically : (any **three**) **9**

- (1) What is an ex-situ conservation technique ?
- (2) Discuss in brief biomagnifications of pesticides.
- (3) Write in brief about Thermal pollution.
- (4) Characteristics of hazardous wastes.
- (5) Write a note on nuclear hazard.
- (6) Discuss the penalties imposed under The Air (Prevention and Control of Pollution) Act, 1981.

(c) Write short notes : (any two)

10

- (1) Write a note on IPAS (Integrated Protected Area System).
- (2) Write in detail about various control measures of Air pollution.
- (3) Write in detail EIA.
- (4) Write an essay on Acid rain.
- (5) Write a note on Wildlife Protection Act, 1972.
