



**PH-003-001633**

Seat No. \_\_\_\_\_

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

**July - 2018**

**Microbiology : Paper - MB.P - 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 diagrams wherever required.  
(3) Figures on right indicate marks.

- 1** Answer the following : (one mark each) **20**
- (1) Define : Photovoltaic Cell
  - (2) Fill in the Blank : A \_\_\_\_\_ is a natural resource that takes millions of years to regenerate and irreplaceable after consumption.
  - (3) True or False : Use of water flowing down a natural gradient to turn turbine to generate electricity is known as "Wind Power"
  - (4) Give any two examples : Renewable energy resources
  - (5) Define : Ecological Succession
  - (6) Fill in the blank : Carnivores are that feed on \_\_\_\_\_, which in turn feed on plants is food chain.
  - (7) True or False : Loss of extinction of species implies that food web has broken down.
  - (8) Give any two examples : Second order consumers
  - (9) Define : "Hotspots" of Biodiversity
  - (10) Fill in the blank : \_\_\_\_\_ is an exotic species which is also known as Congress Grass.
  - (11) True or False : A natural forest ecosystem provides a large number of timber forest products known as NTFPs
  - (12) Give any two examples : Species conserved by In situ conservation

- (13) Define : Temporary Threshold Shift
- (14) Fill in the Blank : \_\_\_\_\_ Heavy metal poisoning occurs in Minamata.
- (15) True or False : Nuclear fission is the fusion of nucleus atom
- (16) Give any two Examples : Air pollutant responsible for ozone depletion
- (17) Define : Green House Effect
- (18) Fill in the blank : Central Pollution Control Board was established under \_\_\_\_\_ Act.
- (19) True or False : National Parks and Wild Life Sanctuaries are part of Forest Conservation Act
- (20) Give any two examples: Gases responsible for greenhouse effect.

- 2** (A) Answer specifically : (Any **Three**) **6**
- (1) Write a brief note on Human Development Index.
  - (2) What is Food web ?
  - (3) Write a note on water cycle.
  - (4) What is ex situ conservation ?
  - (5) Discuss in brief Integrated Crop Management.
  - (6) What is EIA ?
- (B) Answer specifically : (Any **Three**) **9**
- (1) Enlist various advantages and disadvantages of Dam construction.
  - (2) Draw Carbon cycle. Explain its role in marine ecosystem.
  - (3) Enlist Biogeographical zones of India
  - (4) Define vermicomposting and enlist steps of Vermicomposting.
  - (5) Write in brief on Acid Rain.
  - (6) Write a note on Photochemical smog.
- (C) Write short notes : (Any **Two**) **10**
- (1) Describe in detail Forest Functions.
  - (2) Enlist and explain: Structural part of ecosystem.
  - (3) Comment on: "India as Mega Diversity Nation".
  - (4) Write a note on Soil Profile. Explain which part of soil is most polluted and why?
  - (5) Write a note on : Environmental Protection Act.

- 3 (A) Answer specifically : (Any **Three**) **6**
- (1) What is Joint Forest Management?
  - (2) Draw: Sulfur cycle.
  - (3) What is Temperature inversion? How it affects atmosphere?
  - (4) What is the role of cyclone separator?
  - (5) Define : BOD. How it indicates water quality?
  - (6) Write in brief on nuclear holocaust.
- (B) Answer specifically : (Any **Three**) **9**
- (1) What is mining? Enlist four stages of mining.
  - (2) Draw and explain with example inverted pyramid.
  - (3) Explain threats to biodiversity.
  - (4) Characteristics of hazardous wastes.
  - (5) Explain with example : "Pollution leads to Adaptation"
  - (6) Discuss the penalties imposed under The Air (Prevention & Control of Pollution) Act, 1981.
- (C) Write short notes : (Any **Two**) **10**
- (1) Write a note on Energy Conservation
  - (2) Draw and describe energy flow in energy pyramid.
  - (3) Comment on : " It is a high time to think regarding Green Revolution"
  - (4) Write a note on the types of pollutants and explain why non-point source pollution control measure is difficult?
  - (5) Enlist the activities of humans responsible for climate change that leads to "GLOBAL WARMING"
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