

**BBA I<sup>st</sup> Semester (Honours) Examination, 2020**  
**BACHELOR OF BUSINESS ADMINISTRATION**

**COURSE ID: 11800**

**Course Code: BBA-AECC-01**

**Course Title: ENVIRONMENTAL STUDIES**

**Full Marks: 80**

**Time: 3 hours**

*The figures in the margin indicate full marks.  
Candidates are required to give their answers in their own words  
as far as practicable.*

**Group A**

**1. Answer all the following questions :**

**1 x 10 = 10**

- i) The occurrence at vertical layers in a forest is
  - a) Pattern
  - b) stratification
  - c) Zonation
  - d) eco tone
  
- ii) Photochemical smog is caused by –
  - a) CO
  - b) CO<sub>2</sub>
  - c) O<sub>3</sub>
  - d) NO<sub>2</sub>
  
- iii) BOD is
  - a) Amount of oxygen consumed by microorganisms for decaying organic matter per unit volume of water.
  - b) Amount of CO<sub>2</sub> consumed by microorganisms per unit of sewage water
  - c) Amount of oxygen required by aquatic plants for survival
  - d) None of the above
  
- iv) The sphere of living matter found on the surface of earth comprises
  - a) Lithosphere
  - b) Atmosphere
  - c) Hydrosphere
  - d) None of the above
  
- v) In a pond ecosystem, the bottom area where the production is lesser than the respiration ( $P/R < 1$ ) is termed as:
  - a) Littoral zone
  - b) Benthic zone
  - c) Limnetic zone
  - d) Profundal zone
  
- vi) The natural residence of every organism is known as:
  - a) Biome
  - b) Niche
  - c) Habit
  - d) Habitat

- vii) "What do the forests bear? Soil, water, and pure air"- is the slogan coined during
- Chipko movement
  - Silent valley movement
  - Save Narmada movement
  - none of the above
- viii) "Salmonella" is responsible for—
- Cholera
  - Dyssentry
  - Typhoid
  - Small pox
- ix) Kaziranga of Assam is a—
- Sanctuary
  - National park
  - Reserved forest
  - Biosphere Reserve
- x) Sheet erosion is caused by:
- Fast running rivers
  - Wind
  - Heavy rains
  - Glaciers

### Group B

#### 2. Answer any *ten* from the following:

2 X 10 = 20

- Distinguish between habitat and niche?
- What do you mean by afforestation?
- Give two viral pathogen example of water-borne diseases?
- What is an Eco-cline?
- Define biosphere reserves with example?
- Mention two advantages of solar energy?
- What is the main function of an ecosystem?
- What do you mean by Lindeman's Law?
- Mark the producer, primary consumer, secondary consumer and tertiary consumer of a grassland ecosystem in the following word-----

**Grass, snake, hawk, Grasshopper**

- What is alpha ( $\alpha$ ) diversity?
- What is GMO?
- Full form of IUCN and UNESCO?
- What is acid rain?
- What is the difference between primary and secondary pollutants?
- What are the two main causes of desertification?

## Group C

3. Answer any *four* from the following:

5 × 4 = 20

- i) Write a short note on eutrophication?
- ii) What are the methods of controlling air pollution?
- iii) How can be airborne diseases prevented?
- iv) What do you mean by Biomagnification? Give two example of air-borne diseases? 3 + 2 = 5
- v) Explain the three ecological pyramids. What data is propagated by each pyramid in association with **function, structure** and **energy** in the ecosystem?
- vi) What is the importance of biodiversity in the environment?

## Group D

4. Answer any *three* from the following:

10 × 3 = 30

- i) What is global warming? What are the impacts of ozone layer depletion? 2 + 8 = 10
- ii) Draw a labelled diagram of HIV and describe its features? Briefly write down about mode of transmission, symptoms, and preventive measures of HIV? 4 + 6 = 10
- iii) What is land degradation? Write a short note on soil erosion? 2 + 8 = 10
- iv) Diagrammatically represent how does energy flow in an ecosystem?
- v) What is sustainable development? Write a short note on -atmosphere? 2 + 8 = 10
- vi) What is water pollution? How does solid waste management affect the environment? 3 + 7 = 10

---