

**BA ADMINISTRATION AND GOVERNANCE  
SECOND SEMESTER  
ENVIRONMENTAL STUDIES  
BAAG - 203**

**SET  
B**

**[USE OMR SHEET FOR OBJECTIVE PART]**

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

**(Objective)**

Marks: 20

*Choose the correct answer from the following:*

*1 × 20 = 20*

1. Consider the following differences between Parasitism and Predation:
  1. A parasite kills a prey whereas a predator does not cause death to the host.
  2. In parasitism the weak feed on the strong while in predation the strong feed on the weak.Which of the statements given above is/are correct?
  - a. 1 only
  - b. 2 only
  - c. Both 1 and 2
  - d. Neither 1 nor 2
2. With reference to the productivity of an ecosystem, consider the following statements:
  1. Gross primary productivity of an ecosystem is the rate of production of organic and inorganic matter.
  2. Net primary productivity is the available biomass for consumption to heterotrophs.Which of the statements given above is/are correct?
  - a. 1 only
  - b. 2 only
  - c. Both 1 and 2
  - d. Neither 1 nor 2
3. Which of the following are effective methods in dealing with air pollution?
  1. Washing of coal
  2. Replacement of controlled oxygen furnaces with open-hearth furnaces
  3. Use of storage tanks with floating roof covers in petroleum refineriesSelect the correct answer using the code given below.
  - a. 1 and 2 only
  - b. 1 and 3 only
  - c. 2 and 3 only
  - d. 1, 2 and 3
4. The species that invade a bare area are called pioneer species. In primary succession in water, which of the following species act as the pioneers?
  1. Small phytoplanktons
  2. Rooted-floating angiosperms
  3. Reed-swamp
  4. Marsh-meadowSelect the correct answer using the code given below.
  - a. 1 only
  - b. 2 and 3 only
  - c. 1 and 4 only
  - d. 1, 2, 3 and 4

5. In the context of ecology, Antibiosis refers to
- Competition between organisms of the same species.
  - An association between two species, where one species kills to feed on the other.
  - A relationship in which one organism is benefited by direct utilization of another.
  - Secretions by an organism which are harmful to others.
6. Which of the following statements is correct regarding the air pollution control device, scrubber?
- It separates particulate matter from gases in electric power plants
  - It allows settling of the pollutants in a gas to settle down due to the effect of gravity
  - It employs spray of water to catch pollutants during emissions.
  - It imparts electrical charge to the particles that makes them stick to the metallic plates.
7. Which of the following is/are the features of Grassland Ecosystems?
- Grasslands have a rich variety of animals.
  - Optimum conditions for the growth of trees
  - Soils in grasslands are characterized by thin podzols.
- Select the correct answer using the code given below.
- 1 only
  - 2 and 3 only
  - 1 and 3 only
  - 2 only
8. Consider the following statements with reference to the water harvesting potential of an area:
- The total amount of water that is received in the form of rainfall over an area is known as water harvesting potential.
  - Unpaved surfaces have a relatively lower water harvesting potential than paved surfaces.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
9. In these forests, there is no winter, and there are only two seasons (rainy and dry). They have the largest variety of life forms and tree species in all of nature. Trees are 25-35 m tall, with shallow roots and large dark green leaves. Animals in these forests are highly adapted to their diverse environment having developed strong defence mechanisms
- Which of the following type of forest ecosystem is being described by the above passage?
- Tropical Forests
  - Temperate Forests
  - Taiga Forests
  - None of the above



10. Which of the following ecological pyramids is/are inverted?
1. Pyramid of numbers in a parasitic food chain
  2. Pyramid of biomass in grassland
  3. Pyramid of biomass in a pond
- Select the correct answer using the code given below.
- a. 1 only
  - b. 2 and 3 only
  - c. 1 and 3 only
  - d. 1 and 2 only
11. \_\_\_\_\_ is the example of non-renewable natural resources
- a. Water
  - b. Solar energy
  - c. Crops
  - d. Coal and Petroleum
12. Forest Conservation Act was established in
- a. 1952
  - b. 1988
  - c. 1980
  - d. 1970
13. Global warming will cause the following problem
- a. Melting of glaciers
  - b. Raising of ocean level
  - c. Sinking of islands
  - d. All the above
14. The fossil fuel is extracted by a technique called \_\_\_\_\_
- a. Hydro energy
  - b. Hydraulic fracturing
  - c. Hydraulic fraction
  - d. Hypodrilling fraction
15. Montreal Protocol was first signed in
- a. 24<sup>th</sup> Jan 2002
  - b. 17<sup>th</sup> Sep 1999
  - c. 05<sup>th</sup> June 1987
  - d. 16<sup>th</sup> Sep 1987
16. Process of burning of non-biodegradable solid waste is called \_\_\_\_\_
- a. Composting
  - b. Incinerations
  - c. Segregation
  - d. Sanitary land filling
17. First national park in India
- a. Bandipur National park
  - b. Gir National park
  - c. Sunderbans National park
  - d. Jim Corpet National park
18. Minimum area of forest required to maintain good ecological balance
- a. 30%
  - b. 33%
  - c. 35%
  - d. 40%
19. Red data book contains
- a. All plant species
  - b. All animal species
  - c. Threatened species
  - d. Economically important species
20. Which of the following is the natural habitat of the Indian lion
- a. Sunderban delta
  - b. Gir forest
  - c. Bandipur national park
  - d. Kaziranga national park

**(Descriptive)**

Time : 2 Hr. 30 Mins.

Marks : 50

[ Answer question no.1 & any four (4) from the rest ]

1. Discuss the ecosystem and its functions like energy flow, nutrient cycle and ecological succession with adequate examples. 10
2. How does the draft Environment Impact Assessment (EIA) Notification, 2020, differ from the existing EIA Notification, 2006? 10
3. Lay out how people's health is negatively impacted by pollution. 10
4. Define Solid waste Management. Mention the Causes, effects and control measures of urban and industrial wastes. 10
5. Like rainforests role as the lungs of the Earth, the mangroves function as its kidneys. Discuss the significance of mangrove. 10
6. Write about the different types of corals and incidents leading to coral bleaching 10
7. What are biogeochemical cycles? Explain the nitrogen cycle. 10
8. Write Short Notes on: (Any two) 5×2=10
  - a) Wildlife protection act 1972
  - b) TRAFFIC
  - c) Joint Forest Management
  - d) Global Tiger Forum

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