



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(Ag)-Hons-2022

Course Name – Environmental Studies and Disaster Management

Course Code - CC-BAG377(T)

(Semester III)

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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) The most important elements which causes algal bloom are
 - a) N, P, K
 - b) C, N, P
 - c) Ca, Mg, Fe
 - d) Mo, Co, Cu
- (ii) Incomplete combustion of fuel such as petrol and diesel gives
 - a) nitrogen oxide
 - b) carbon monoxide
 - c) Sulphur dioxide
 - d) carbon dioxide
- (iii) Which type of consumers are present at the apex of the food chain ?
 - a) Primary
 - b) Secondary
 - c) Tertiary
 - d) Quaternary
- (iv) Predict the disease that occurs due to mercury pollution
 - a) Minamata disease
 - b) Skin cancer
 - c) Ouch-ouch disease
 - d) Kidney damage
- (v) Green House gas is
 - a) Methane
 - b) Water vapor
 - c) Carbon monoxide
 - d) All of these
- (vi) Grassland ecosystem is occupied by nearly how much percentage of earth surface?
 - a) 21%
 - b) 50%
 - c) 70%
 - d) 80%
- (vii) The coldest region of atmosphere is
 - a) Troposphere
 - b) Ionosphere
 - c) Mesosphere
 - d) Stratosphere
- (viii) Kyoto Protocol is related to
 - a) Ozone layer depletion
 - b) Greenhouse gases
 - c) Particulate Matter
 - d) Water pollution
- (ix) Biomagnification means

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- a) accumulation of a chemical by an organism from water and food exposure
- b) accumulation of a chemical by an organism from air
- c) accumulation of a chemical by an organism from laboratories
- d) All of the above
- (x) To monitor the state level environmental issues and problems, Supreme court of India has established
 - a) Green bench
 - b) Pollution Control Board
 - c) Department of Environment
 - d) Department of Biotechnology
- (xi) A lake rich of nutrient is called
 - a) Oligotrophic lake
 - b) Mesotrophic lake
 - c) Eutrophic lake
 - d) Aziotrophic lake
- (xii) World Environment Day is observed every year on
 - a) June 5
 - b) July 5
 - c) August 5
 - d) September 5
- (xiii) Maintaining and judiciously using the environment for human purposes is called
 - a) Conservation of atmosphere
 - b) Maintenance of environment
 - c) Maintenance of atmosphere
 - d) Conservation of environment
- (xiv) Symbiotic bacteria is
 - a) Rhizobium
 - b) Anabena
 - c) Nostoc
 - d) All of these
- (xv) If a baleen whale consume zooplanktons then which kind of consumer it will be?
 - a) Primary Consumer
 - b) Tertiary consumer
 - c) Primary producer
 - d) Secondary consumer
- (xvi) Energy flow in an ecosystem is
 - a) Unidirectional
 - b) Cyclic
 - c) May be unidirectional or cyclic depending on condition
 - d) Bidirectional
- (xvii) Which kind of endemic species of tarai doors hotspot region?
 - a) Royal Bengal Tiger
 - b) One-horned rhinoceros
 - c) Asiatic elephant
 - d) Chital Dear
- (xviii) In BOD test the BOD bottles are stoppered to
 - a) Prevent mixing of carbon dioxide
 - b) Prevent mixing of ozone
 - c) Prevent mixing of oxygen
 - d) Prevent mixing of inert gases
- (xix) Example(s) of conventional type of renewable resources may be
 - a) Plants
 - b) Wildlife
 - c) Aquaculture
 - d) All of the above
- (xx) The maximum sustainable yield is obtained when the population is
 - a) Half of the carrying capacity
 - b) Double of the carrying capacity
 - c) Two third of the carrying capacity
 - d) Three fourth of the carrying capacity

Group-B

(Short Answer Type Questions)

2.5 x
10=25

- 2. State the scope of Environmental Science. (2.5)
- 3. Define the term composting & state its importance in solid waste management. (2.5)
- 4. What is solid waste management? (2.5)
- 5. State the causes of Air Pollution (2.5)

- 6. Write a short note on pond ecosystem. (2.5)
 - 7. Short note on types of Droughts. (2.5)

 - 8. Explain the importance of environmental study. (2.5)
 - 9. What are components of Environment? (2.5)

 - 10. Write the example about the non-renewable energy sources with proper explanation. (2.5)
 - 11. Summarize aquatic ecosystem with proper example. (2.5)
- OR**
- Differentiate between food chain & food web (2.5)

Group-C
(Long Answer Type Questions) 5 x 1=5

- 12. Explain the value of Biodiversity. (5)
- OR**
- Write down the hot spot in India. (5)

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