

BPA/BFA/B.Voc.Design I Semester &
B.A./B.A.Hons.(For Back student) EXAM. 2021-22

ENVIRONMENTAL STUDIES

Max. M. 70 Min.M. 23 (BFA/B.A.)
 Max. M. 70 Min.M. 25 (BPA/B.A.(Hons.)
 Max. M. 60 Min.M. 20 (B.VOC. Design)

Time: 3 Hrs.

Note : All questions are compulsory.

UNIT-1

1. Write a short note on any three:-

- a. Multidisciplinary nature of environmental studies.
- b. Non-renewable resouces
- c. Over exploitation of forest resource
- d. Abuse of water resource
- e. Over exploitation of mineral resource

BFA/B.A./BPA/B.A.(Hons.)-15,
 BVOC DESIGN-12

UNIT-2

2. What is renewable energy? Describe merits and demerits of various renewable energy resources.

BFA/B.A./BPA/B.A.(Hons.)-10,
 BVOC DESIGN-09

OR

Name various sources of food resouce and describe them in detail with example.

UNIT-3

3. Explain any two of the following with flowchart/diagram:-

- a) Energy flow in the ecosystem
- b) Ecological pyramid
- c) Food web

BFA/B.A./BPA/B.A.(Hons.)-10,
 BVOC DESIGN-09

UNIT-4

4. What do you mean by value of biodiversity? Define various types of values of biodiversity with examples.

BFA/B.A./BPA/B.A.(Hons.)-10,
 BVOC DESIGN-08

OR

What do you mean by the Bio-geographical Classification of India? Explain with example.

UNIT-5

BFA/B.A./BPA/B.A.(Hons.)-10,
BVOC DESIGN-08

5. Describe 5 large trees found in India along with their climatic requirements, life cycle and other characteristics.

OR

Write a note with example on the following:-

- a) Endangered animal and plant species of India.
- b) Endemic animal and plant species of India.

6. Choose the correct option:-

BFA/B.A./BPA/B.A.(Hons.)-15,
BVOC DESIGN-15

- (1) Statement-1: Environmental studies deal with every issue that affects an organism.
Statement-2: Its components include biology, geology, chemistry, physics, engineering, sociology, health, anthropology, economics, statistics, computers and philosophy.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.
- (2) Statement-1: Labrador, Doberman, German Shepherd, Pomeranian are different breeds of canine.
Statement-2: Labrador, Doberman, German Shepherd, Pomeranian all are genetically same.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.
- (3) Statement-1: Flow of energy in an ecosystem is always unidirectional.
Statement-2: Unlike the flow of energy, nutrients flow in a cycle.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.
- (4) Statement-1: India has been classified into 25 bio-geographical regions.
Statement-2: Each of these regions contains variety of ecosystems where specific plant and animal species are found.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.

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- (5) Statement-1: Environment provides us various goods and services required for day to day life.
Statement-2: Plants and animals can easily survive even without these resources.
- Statement-1 & Statement-2 both are correct
 - Statement-1 is correct & Statement-2 is incorrect.
 - Statement-1 & Statement-2 both are incorrect
 - Statement-1 is incorrect & Statement-2 is correct.
- (6) Statement-1: Polar bear, Snowy owl, Arctic hare, Penguin, Walrus etc. falls under Genetic biodiversity.
Statement-2: Polar bear, Sloth bear, Brown bear and Panda belong to species biodiversity.
- Statement-1 & Statement-2 both are correct
 - Statement-1 is correct & Statement-2 is incorrect.
 - Statement-1 & Statement-2 both are incorrect
 - Statement-1 is incorrect & Statement-2 is correct.
- (7) Statement-1: Under ex-situ conservation, organisms are conserved in their natural habitat.
Statement-2: Examples of ex situ conservation are Sariska, Kaziranga, Ranthambore, Kanha etc.
- Statement-1 & Statement-2 both are correct
 - Statement-1 is correct & Statement-2 is incorrect.
 - Statement-1 & Statement-2 both are incorrect
 - Statement-1 is incorrect & Statement-2 is correct.
- (8) Statement-1: Platinum, gold, silver and diamond are considered inorganic substances.
Statement-2: Apart from the above, air, water and sunlight also come under inorganic substances.
- Statement-1 & Statement-2 both are correct
 - Statement-1 is correct & Statement-2 is incorrect.
 - Statement-1 & Statement-2 both are incorrect
 - Statement-1 is incorrect & Statement-2 is correct.
- (9) Statement-1: Forests reduces the rate of surface runoff of water, prevents flash floods and soil erosion.
Statement-2: Forests also maintains local climatic conditions and preserves soil nutrients and structure.
- Statement-1 & Statement-2 both are correct
 - Statement-1 is correct & Statement-2 is incorrect.
 - Statement-1 & Statement-2 both are incorrect
 - Statement-1 is incorrect & Statement-2 is correct.

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- (10) Statement-1: Every component of food chain forms trophic level.
Statement-2: Inter-relation between different food chains is known as a food web.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.
- (11) Statement-1: Producers have the lowest energy conversion efficiency.
Statement-2: The energy conversion efficiency of herbivores is better than carnivores.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.
- (12) Statement-1: Biotic substances are any material that originates from living organisms.
Statement-2: Abiotic elements include sunlight, air, water, soil, temperature etc.
- a) Statement-1 & Statement-2 both are correct
 - b) Statement-1 is correct & Statement-2 is incorrect.
 - c) Statement-1 & Statement-2 both are incorrect
 - d) Statement-1 is incorrect & Statement-2 is correct.
- (13) Which one of the following is an Ex-situ conservation method?
- a) Nursery
 - b) National Park
 - c) Wildlife sanctuary
 - d) Tiger reserve
- (14) Which one of the following is not an example of primary consumer?
- a) Blackbuck
 - b) Crocodile
 - c) Chital
 - d) Swamp deer
- (15) Which of the following is not a forest resource based industry?
- a) Paper
 - b) Furniture
 - c) Fabric
 - d) Glass