

Roll No. ....

Total Printed Pages -10

**F - 1378**

**C.B.S. (Second Semester)  
EXAMINATION, May - June, 2022  
ENVIRONMENTAL STUDIES  
(ES - 201)**

*Time : Three Hours]*

*[Maximum Marks:40*

**Note: Attempt all sections as directed.**

**(Section - A)  
(Objective/Multiple Choice Questions)**

**(0.5 mark each)**

**Note: Attempt all questions.**

**Choose the correct answer and write in answer book:**

1. The Chipko movement was started by
- (A) R.D. Mishra
  - (B) Sunderlal Bahuguna
  - (C) Medha Padkar
  - (D) Baba Amte

[2]

2. Endemic species are:
- (A) Uniformly distributed across the landscape
  - (B) Widely distributed
  - (C) Restricted to a particular area
  - (D) Continuously distributed globally
3. The diverse flora and fauna of the planet are under great threat mainly due to:
- (A) Global Warming
  - (B) Lack of water availability
  - (C) Insensitivity to our environment
  - (D) Increasing pollution
4. Conservation within the natural habitat is
- (A) In-situ Conservation
  - (B) Ex-situ Conservation
  - (C) In-vivo Conservation
  - (D) Ex-vivo Conservation
5. Carbon monoxide is harmful to human beings, as it:
- (A) Causes cancer
  - (B) Causes eye irritation
  - (C) has high affinity with haemoglobin as compared to oxygen
  - (D) Depletes ozone layer

P.T.O.

F - 1378

[3]

6. Which chemical form of mercury is caused by Minamata Disease in Japan.

- (A) Elemental mercury in liquid state
- (B) Elemental mercury in vapour state
- (C) Inorganic mercury
- (D) Methyl mercury

7. Which of the following problems is associated with the burning of coal?

- (A) Acid rain
- (B) CO<sub>2</sub> emission
- (C) Ash with toxic metal impurities
- (D) All of these

8. Carbon monoxide is harmful to human beings, as it:

- (A) Causes eye irritation
- (B) Depletes ozone layer
- (C) Has high affinity with haemoglobin as compared to oxygen
- (D) Causes cancer

[4]

9. Match the List - I and List - II identify the correct answer from the codes given below:

<b>List - I</b>	<b>List - II</b>
<b>(Environmental Events)</b>	<b>(Date)</b>
(a) Environment Day	1. 2 February
(b) Wetland Day	2. 16 September
(c) Ozone Day	3. 5 June
(d) Biodiversity Day	4. 22 May

**Codes:**

	a	b	c	d
(A)	3	4	2	1
(B)	3	2	1	4
(C)	3	1	2	4
(D)	4	2	3	1

10. Which is the correct hierarchical level of organization in ecology?

- (A) Organism, population, community, ecosystem, biome, landscape, ecosphere
- (B) Organism, population, community, ecosystem, landscape, biome, ecosphere
- (C) Organism, community, community, ecosystem, landscape, ecosystem, biome, ecosphere
- (D) Organism, population, community, landscape, ecosystem, biome, ecosphere

[5]

11. Why burning waste is not an acceptable practice of solid waste management?
- (A) Because it is very costly
  - (B) Because it requires modern technologies
  - (C) Because it cause several environmental issues
  - (D) Because it requires lot of space
12. Which of the following has been declared as India's cleanest state for 3rd time in row under the centre's Swachh Sarvekshan 2021?
- (A) Chhattisgarh
  - (B) Madhya Pradesh
  - (C) Tamilnadu
  - (D) Gujarat
13. Two important characteristics of any population are:
- (A) Diversity and density
  - (B) Frequency and density
  - (C) Abundance and dispersion
  - (D) Density and distribution
14. Predators and parasites are similar in that, both can be characterized by
- (A) +/+ interaction
  - (B) -/- interaction
  - (C) 0/+ interaction
  - (D) +/- interaction

F - 1378

P.T.O.

[6]

15. Which one of the following can be solution to overpopulation?
- (A) Neglecting family planning
  - (B) Knowledge of family welfare programme
  - (C) Providing more facilities to the family consisting if more kids
  - (D) Improper medical facilities
16. Which one of the following is result of population explosion?
- (A) Adequate storage of natural resources
  - (B) Pressure on land and other renewable resources
  - (C) Increase the amount of forest
  - (D) Decrease the shortage of water
17. Which one of the following organization dedicated to protecting human health from environmental harms?
- (A) Environment and Human Health
  - (B) Environment and Scientific Science
  - (C) Ecological Protection Organizations
  - (D) Ecological Science and Solution
18. Which of the following watershed development project is sponsored by the Central Govt. aims at enabling the rural population to conserve water?
- (A) Arvary Pani Sansad
  - (B) Jal Kranti Abhiyan
  - (C) Hariyali
  - (D) Neeru - Meeru

F - 1378

[7]

19. Identify the correct sequence of the green house gases in increasing order on the basis of GWP (Global Warming Potential):

- (A)  $CH_4 < O_3 < N_2O < CFC$
- (B)  $CO_2 < CH_4 < CFC < N_2O$
- (C)  $N_2O < CH_4 < CO_2 < CFC$
- (D)  $N_2O < O_3 < CH_4 < CFC$

20. Which of the following choices, which best describes or defines GEOTHERMAL ENERGY?

- (A) Heat energy from inside the earth
- (B) Heat energy from hot springs.
- (C) Heat energy from volcanic eruptions
- (D) Heat energy from rocks on Earth's surface

### Section - B

#### (Very Short Answer Type Questions)

(0.75 marks each)

**Note : Attempt all questions.**

1. What are Keystone Species?
2. What is Beta ( $\beta$ ) Diversity?
3. Explain the great London smog.
4. Write two impacts of stubble burning.
5. Explain the flash flood?

F - 1378

P.T.O.

[8]

6. What do you mean by hazardous waste?
7. What is Immigration?
8. Define the term Environmental Health.
9. What do mean by global warming?
10. How ozone layer is important for Earth?

### Section - C

#### (Short Answer Type Questions)

(1.25 marks each)

**Note : Attempt all questions.**

1. Write a note on man - animal conflicts with suitable example.
2. What do you understand by ecosystem services?
3. Explain the mechanism of the catalytic converter to control vehicle pollution.
4. What are pesticides? Explain the negative impacts of pesticides on the environment.
5. Write a case study on discolouration of the Tajmahal.
6. What is the role of an individual in the prevention of plastic pollution?
7. Explain the relationship between population and pollution.
8. What are the differences between R and K selection species?
9. Explain the impacts of COVID - 19 on the environment.
10. How environmental ethics play an important role to achieve the sustainable development goal?

F - 1378

[9]

**Section - D**

**(Long Answer Type Questions)**

**(2 marks each)**

**Note: Attempt all questions.**

1. What is biodiversity hotspot? Explain the major biodiversity hotspot in India.

**OR**

Explain how the in - Situ Conservation is more effective than the Ex - Situ conservation of biodiversity.

2. Write a brief account of the waste water treatment process in the modern era.

**OR**

What are the criteria pollutants? Explain its source and their impacts on the environment.

3. Write short note on the following:

- (A) Composting  
(B) Plastic Waste Management

**OR**

What is a nuclear disaster? Explain the management of nuclear disasters.

[10]

4. Write a short note on the characteristics of the population:

- (A) Natality and Birth Date  
(B) Mortality and Death Date

**OR**

What is a family welfare programme? Describe its role to control overpopulation.

5. Write a brief note on the positive and negative impacts of green house effects.

**OR**

Describe in detail major sustainable development goals related to the environment.