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**M.Sc. (Fourth Semester)
EXAMINATION, May - June, 2022
BOTANY
Paper Second
(Plant Ecology-II)
(Pollution and Biodiversity Conservation)**

Time : Three Hours]

[Maximum Marks:80

Note: Attempt all sections as directed.

(Section - A)

(Objective/Multiple Choice Questions)

(1 mark each)

Choose the correct answer:

1. Alpine plants are found in area having height of:
(A) 3600 meter to 4800 meter
(B) 2000 to 2500 meter
(C) 1000 to 2000 meter
(D) 2500 to 3500 meter

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2. Commonly mangrove plants are:
(A) Flesly
(B) Hetrophyllus
(C) Leaf less
(D) Viviparous
3. In warm climate alternate dry and winter season and presence of less tree is the characteristic of:
(A) Savannah
(B) Tropical rain forest
(C) Tegga
(D) Tundra
4. Concept of left zone was developed by:
(A) A. N. Tansley
(B) Hart Marriam
(C) E.P. Odum
(D) R. Mishra
5. Formation of soil is known as:
(A) Biogenesis
(B) Morphogenesis
(C) Pedogenesis
(D) Broangenesis

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6. Maximum depletion of ozone layer in Antarctica occur in the month of
- (A) December and January
 - (B) October and November
 - (C) September and October
 - (D) August and September
7. Green House effect is work due to :
- (A) Reaching of Infrared rays on earth
 - (B) Moisture layer of atmosphere
 - (C) Increase in temperature
 - (D) Ozone layer of atmosphere
8. Peroxyacetylene nitrate is:
- (A) Water pollutant
 - (B) Air pollutant
 - (C) Sound pollutant
 - (D) Land pollutant
9. International day for presentation of Ozone layer is celebrated every year:
- (A) 16th September
 - (B) 21th March
 - (C) 5th June
 - (D) 22 May

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10. Arsenic contamination is maximum in drinking water in:
- (A) Chennai
 - (B) Delhi
 - (C) Kanpur
 - (D) Mumbai
11. The word Biodiversity was given by:
- (A) Walter G Rosen
 - (B) Clement and Weaver
 - (C) Dr. R. Mishra
 - (D) Dabunmine
12. Name of Institution responsible for selection of ecosystems for Biosphere Reserve in India is.
- (A) International Union for Conservation of nature IUCN
 - (B) Indian MAB Committee
 - (C) WWF
 - (D) BSI
13. Biosphere Reserve network programme launched by UNESCO in the year:
- (A) 1971
 - (B) 1973
 - (C) 1972
 - (D) 1982

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14. Hottest Hot spot of Biodiversity in India are

- (A) Indo Burma region
- (B) Western Ghats and Sri Lanka
- (C) Both (A) and (B)
- (D) None of (A) and (B)

15. How many magazine centres in the world?

- (A) 13
- (B) 14
- (C) 12
- (D) 8

16. Plant Fossil National Park is situated in

- (A) Mandla
- (B) Hoshangabad
- (C) Bastar
- (D) Shivpuri

17. The largest coral reef of the world is situated in:

- (A) America
- (B) India
- (C) Australia
- (D) Bangladesh

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18. The Yellow Stone National Park is situated in :

- (A) India
- (B) America
- (C) China
- (D) Pakistan

19. DBT is associated with

- (A) Ex-situ and in vitro conservation
- (B) Insitu conservation
- (C) Both (A) and (B)
- (D) None of these

20. Sulphate Biosphere Reserve is situated in:

- (A) Uttar Pradesh
- (B) Madhya Pradesh
- (C) Chhattisgarh
- (D) Bihar

Section - B

(Very Short Answer Type Questions)

(2 marks each)

Note : Attempt any eight questions. Write one or two lines only.

1. Define life zones.

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2. Name of two main biomes of the world.
3. Define global warming.
4. What is ozone hole?
5. Name of two primary world center of diversity of domesticated plants
6. Name of two National park of Chhattisgarh.
7. Write two important feature of Biodiversity in ecosystem function.
8. Name of the two wetlands of India :
9. Name of one famous botanical Garden of world and one of India.

Section - C

(Short Answer Type Questions)

(3 marks each)

Note : Attempt any eight questions. Word limit is 150 word.

Short notes on -

1. Greenland Biome
2. Mangroves - short note.
3. Green House Gases.
4. Rise in sea level.
5. Plant introduction
6. Convention of Biodiversity

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7. Principles of conservation
8. Seed Bank
9. Cryobanks.

Section - D

(Long Answer Type Questions)

(5 marks each)

Note: Attempt all questions. Word limit 150 word.

1. Describe any two life zones of the world.

OR

An account on Grassland vegetation.

2. Account of air pollution, causes, effect on ecosystem and control measure.

OR

Describe in brief climate change.

3. Discuss IUCN categories of threat.

OR

Note of secondary Centers.

4. Note on wildlife sanctuary and its frameworks

OR

Note on Botanical survey of India.

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