

QB365 Question Bank Software Study Materials

Botany - Environmental Issues Important 2 Marks Questions With Answers (Book Back and Creative)

12th Standard

Biology

Total Marks : 40

2 Marks

20 x 2 = 40

1) What is ozone hole?

Answer : The decline in the thickness of the ozone layer over the restricted area is called the Ozone hole.

2) Give four examples of plants cultivated in commercial agroforestry.

Answer : Casuarina, Eucalyptus, Teak, Malai vembu.

3) Expand CCS. (or) What is CCS?

Answer : CSS - Carbon Capture and Storage.

4) How do forests help in maintaining the climate?

Answer : (a) Trees provide micro climate for crops and maintain O₂ - CO₂ balance atmospheric temperature & relative humidity
(b) Suitable for dry land where rainfall is minimum hence it is a good system for alternate land use pattern

5) Methane is one of a potent green house gas. Point out a few sources from where methane is generated.

Answer : Paddy field, fossil fuel production, bacteria in water bodies, cattle rearing, non-wetland soils, and forest & wildfires.

6) What is ozone layer? Why it is essential?

Answer : Ozone layer is a region of Earth's stratosphere that absorbs most of the Sun's ultraviolet radiation. The ozone layer is also called as the ozone shield and it acts as a protective shield, cutting the ultra-violet radiation emitted by the sun.

7) Define ozone hole. Name anyone potent chemical that is responsible for the effect.

Answer : The decline in the thickness of the ozone layer over restricted area is called Ozone hole. Chlorofluorocarbons (CFC) damages the ozone layer to a great extent.

8) What is meant by biological indicators? Give example.

Answer : The plant species or plant community acts as a measure of environmental conditions, it is referred to as biological indicators or photo indicators or plant indicators. E.g: Lichens as SO₂ pollution indicator.

9) Name the plant species which act as indicators for Nitrate pollution & Flouride pollution.

Answer : (i) Petunia species act as indicators for Nitrate pollution.
(ii) Gladiolus species acts as indicators for Flouride pollution.

10) Define the term Agroforestry. Name any two major tree species cultivated in Agroforestry.

Answer : Agroforestry is an integration of trees, crops, and livestock on the named plot of land. The commercial Agroforestry trees are casuarina and Eucalyptus.

11) Explain the term social forestry.

Answer : Social forestry refers to the management of forests and afforestation on barren lands with the purpose of helping the environmental, social and rural development and benefits.

12) Compare Deforestation and Afforestation

Answer :

DEFORESTATION	AFFORESTATION
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The conversion of the forested area into a non-forested area is known as deforestation	Afforestation is a planting of trees where there was no previous tree coverage and the conversion of non-forested lands into forests by planting suitable trees to retrieve the vegetation.
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13) Give the names of any four famous sacred groves in Tamil Nadu.

- Answer :** (a) Banagudi Shola
 (b) Thirukurungudi
 (c) Udaiyankudikadu
 (d) Sittannavasal

14) What does the term 'Endemic' refers to?

Answer : Any species found restricted to a specified geographical area is referred to as ENDEMIC.

15) Carbon sequestration occurs naturally by plants and oceans. Name any four microalgal species involved in the process.

- Answer :** (a) Chlorella
 (b) Scenedesmus
 (c) Chroococcus
 (d) Chlamydomonas

16) List out the benefits of EIA to society.

- Answer :** The benefits of EIA to society
 (i) A healthier environment
 (ii) Maintenance of biodiversity
 (iii) Decreased resource usage
 (iv) Reduction in gas emission and environment damage

17) What is GIS?

Answer : Geographic Information System (GIS) is a computer system for capturing, storing, checking and displaying data related to positions on Earth's surface. Also to manipulate, analyze, manage and present spacial or geographic data.

18) Define Greenhouse gases and list out its example.

- Answer :** (i) The gases that capture heat are called green house gases.
 (ii) Eg. CO₂, methane (CH₄), Nitrous oxide (N₂O) & CFC

19) What is global warming?

Answer : The increase in mean global temperature due to increased concentration of greenhouse gases.

20) What is invasive species?

Answer : A non-native species to the ecosystem or country under consideration that spreads naturally, interferes with the biology and existence of native species poses a serious threat to the ecosystem and causes economic loss.
 e.g., Eichhornia crassipes