

National Testing Agency

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Ecology And Environment Pollution

Group Number : 1
Group Id : 4165293
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Ecology And Environment Pollution

Section Id : 4165293
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 50
Number of Questions to be attempted: 50
Section Marks: 50
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 4165293
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 416529101 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements is correct:

- Generalist species generally have narrower ecological niche than specialist species
- Specialist species generally have narrower ecological niche than generalist species
- Ecological niche does not differ between specialist and generalist species
- All of the above

Question Number : 2 Question Id : 416529102 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The process by which soil is formed is called:

- a. Neogenesis
- b. Ecesis
- c. Psamogenesis
- d. Pedogenesis

Question Number : 3 Question Id : 416529103 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following soil horizons contains highest percentage of organic matter:

- a. A
- b. B
- c. O
- d. E

Question Number : 4 Question Id : 416529104 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Size of silt particles is usually in the range of:

- a. 0.002 - 0.05 mm
- b. > 2 mm
- c. 0.05 - 2 mm
- d. < 0.002 mm

Question Number : 5 Question Id : 416529105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Liming of soil:

- a. Decreases soil pH
- b. Increases soil pH
- c. Increases soil aeration
- d. Decreases soil aeration

Question Number : 6 Question Id : 416529106 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

CEC stands for:

- a. Cation energy capacity
- b. Cation exchange channel
- c. Cation exchange capacity
- d. None of these

Question Number : 7 Question Id : 416529107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a rooted-floating hydrophyte:

- a. Lemna
- b. Hydrilla
- c. Nelumbo
- d. Typha

Question Number : 8 Question Id : 416529108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is an adaptation in xerophytic species?

- a. Leaves modified into spines
- b. Stomata Sunken
- c. Well developed root system
- d. All of the above

Question Number : 9 Question Id : 416529109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phytochrome in plants regulates:

- a. Stomatal opening and closing
- b. Hypocotyl expansion
- c. Phtomorphogenesis
- d. All of the above

Question Number : 10 Question Id : 416529110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Survivorship curve of a population in which number of individuals dying each unit of time remains constant would plot as a:

- a. Convex curve
- b. Straight line
- c. Concave curve
- d. None of the above

Question Number : 11 Question Id : 416529111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An ecotone is a transition area between:

- a. Two biomes
- b. Two populations
- c. Two species
- d. None of these

Question Number : 12 Question Id : 416529112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A metacommunity is:

- a. A subset of community
- b. A small community
- c. Set of local communities that are linked by dispersal.
- d. None of the above

Question Number : 13 Question Id : 416529113 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a qualitative community characteristic:

- a. Abundance
- b. Frequency
- c. Periodicity
- d. None of above

Question Number : 14 Question Id : 416529114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Underground perennating structures are characteristic of:

- a. Phanerophytes
- b. Chamaephytes
- c. Therophytes
- d. Cryptophytes

Question Number : 15 Question Id : 416529115 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Soil pH ideal for phosphorus availability is:

- a. 8 to 12
- b. 3 to 5.5
- c. 4 to 10
- d. 6 to 7.5

Question Number : 16 Question Id : 416529116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements is correct?

- a. All aliens species eventually become invasive
- b. All aliens species are problematic
- c. All aliens species belong to a single taxonomic group
- d. None of above

Question Number : 17 Question Id : 416529117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The concept of sustainable development was first propounded in:

- a. The Brundtland Report
- b. Kyoto Protocol
- c. Nagoya Protocol
- d. Achi Biodiversity Targets

Question Number : 18 Question Id : 416529118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

'Thickness' of Stratospheric Ozone layer is measured in:

- a. Melson units
- b. Dobson units
- c. Sieverts
- d. Beaufort scale

Question Number : 19 Question Id : 416529119 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Intensity of sound in a normal conversation is:

- a. 40-60 dB
- b. 10-20 dB
- c. 100-130 dB
- d. 140-200 dB

Question Number : 20 Question Id : 416529120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Solubility of oxygen in water bodies due to thermal pollution:

- a. Increases
- b. Decreases
- c. Neither decreases nor increases
- d. Either increases or decreases

Question Number : 21 Question Id : 416529121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Greenhouse gases in atmosphere include:

- a. Methane, sulphur dioxide and nitrogen
- b. Sulphur hexafluoride, methane and argon
- c. Nitrous oxide, sulphur hexafluoride and nitrogen
- d. Methane, Nitrous oxide and sulphur hexafluoride

Question Number : 22 Question Id : 416529122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Species that occur in different geographical regions separated by some barrier are:

- a. Sympatric species
- b. Allopatric species
- c. Keystone species
- d. Endemic species

Question Number : 23 Question Id : 416529123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The measurement of change in species composition from one community to another (species turnover) is:

- a. Beta diversity
- b. Gamma diversity
- c. Alpha diversity
- d. Omega diversity

Question Number : 24 Question Id : 416529124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Soil profile is well developed in:

- a. Deserts
- b. Tropics
- c. High altitude lands
- d. Arctic

Question Number : 25 Question Id : 416529125 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a positive species interaction?

- a. Commensalism
- b. Protocooperation
- c. Amensalism
- d. Mutualism

Question Number : 26 Question Id : 416529126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The biogeochemical cycle that lacks a distinct atmospheric phase is:

- a. Carbon cycle
- b. Phosphorus cycle
- c. Nitrogen cycle
- d. None of the above

Question Number : 27 Question Id : 416529127 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

"Montreal Protocol" aims at addressing the issue of:

- a. Global Warming
- b. Ozone layer Depletion
- c. Acid Rain
- d. Biodiversity Loss

Question Number : 28 Question Id : 416529128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is an "Ex-situ" method of biodiversity conservation:

- a. Gene Bank
- b. Botanical Garden
- c. Both a and b
- d. National Park

Question Number : 29 Question Id : 416529129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

MAB programme stands for:

- a. Man and Biotechnology programme
- b. Man and biology programme
- c. Man and biosphere programme
- d. Material and biology programme

Question Number : 30 Question Id : 416529130 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sundarbans in West Bengal are an example of:

- a. Dry deciduous forests
- b. Deciduous or Monsoon type of forests
- c. Tidal or Mangrove forests
- d. Mountain forests

Question Number : 31 Question Id : 416529131 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The process of conversion of nitrate (NO_3^-) back to gaseous nitrogen (N_2) during a nitrogen cycle is termed as:

- a. Nitrification
- b. Assimilation
- c. Ammonification
- d. Denitrification

Question Number : 32 Question Id : 416529132 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arbuscular mycorrhizas are an example of:

- a. Competition
- b. Commensalism
- c. Mutualism
- d. Amensalism

Question Number : 33 Question Id : 416529133 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Exponential population growth is possible when:

- a. Resources are limited
- b. Resources are unlimited
- c. Neither 'a' nor 'b'
- d. Either 'a' or 'b'

Question Number : 34 Question Id : 416529134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The relative proportion of which of the following determines soil texture:

- a. Sand, silt and clay
- b. Sand, water and minerals
- c. Sand, clay and water
- d. Carbon, nitrogen and phosphorus

Question Number : 35 Question Id : 416529135 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Clay particles in a soil have net:

- a. Positive charge
- b. Negative charge
- c. No charge
- d. None of the above

Question Number : 36 Question Id : 416529136 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Stratification is conspicuous in which of the following ecosystems:

- a. Forest ecosystem
- b. Lake ecosystem
- c. Grassland ecosystem
- d. Savannah ecosystem

Question Number : 37 Question Id : 416529137 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Plants take up nitrogen from soil solution principally in the form of:

- a. NH_4^+
- b. NO_3^-
- c. NO_2
- d. N_2

Question Number : 38 Question Id : 416529138 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Temperature in the troposphere:

- a. Increases with height
- b. Decreases with height
- c. May increase or decrease with height
- d. None of the above

Question Number : 39 Question Id : 416529139 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The wave length of photosynthetically active radiations (PAR) is in the range of:

- a. 400 to 700 nm
- b. 400 μm to 700 μm
- c. 400 $^\circ\text{A}$ to 700 $^\circ\text{A}$
- d. 400 mm to 700 mm

Question Number : 40 Question Id : 416529140 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Trophic cascades in ecosystems are an example of:

- a. Bottom-up control
- b. Top-down control
- c. Biological invasion
- d. Ecological succession

Question Number : 41 Question Id : 416529141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Living organisms growing in natural habitats mostly display which type of population growth curve?

- a. Sigmoidal curve
- b. J-shaped curve
- c. Both 'a' and 'b'
- d. Neither 'a' nor 'b'

Question Number : 42 Question Id : 416529142 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The most important climatic variable(s) that determine(s) the type of biome in a particular location is/are:

- a. Temperature
- b. Precipitation
- c. Both 'a' and 'b'
- d. Neither 'a' nor 'b'

Question Number : 43 Question Id : 416529143 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Constituents of photochemical smog include:

- a. Ozone
- b. Aldehydes
- c. Peroxyacetyl nitrates
- d. All of the above

Question Number : 44 Question Id : 416529144 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A biodiversity hotspot must meet which of the following criteria:

- a. It must contain at least 1500 species of vascular plants as endemics
- b. It has to have lost 70% of its original native habitat
- c. Both 'a' and 'b'
- d. Neither 'a' nor 'b'

Question Number : 45 Question Id : 416529145 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

'World Environmental Day' is celebrated each year on:

- a. 5th of June
- b. 1st December
- c. 14th November
- d. 22nd March

Question Number : 46 Question Id : 416529146 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Species diversity within a habitat is known as:

- a. Alpha diversity
- b. Beta diversity
- c. Gamma diversity
- d. Epsilon diversity

Question Number : 47 Question Id : 416529147 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

United Nations Framework Convention on Climate Change (UNFCCC) came into force on:

- a. 9th May, 1992
- b. 4th June, 1992
- c. 21st March, 1994
- d. 4th November, 2016

Question Number : 48 Question Id : 416529148 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Conservation International identified how many megadiverse countries in 1998:

- a. Ten
- b. Seventeen
- c. Seven
- d. Five

Question Number : 49 Question Id : 416529149 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following is a nutrient heavy metal?

- a. Cadmium
- b. Lead
- c. Mercury
- d. Cobalt

Question Number : 50 Question Id : 416529150 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most of the energy in a coniferous forest would flow through:

- a. Grazing food chain
- b. Detritus food chain
- c. Auxiliary food chain
- d. None of the above