

NDA-CDS-AFCAT 2024

TOP 25 MCQ'S

GEOGRAPHY

BIODIVERSITY

PART 2



RUBY MA'AM

When A Threatened Plant Needs Urgent Measures To Save It From Extinction, The Desirable Approach Is

- A. In-situ Conservation
- B. Ex-situ Conservation
- C. Cryopreservation
- D. Biopreservation

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Ex-situ conservation involves the removal of endangered plant species from their natural habitat and their preservation in controlled environments outside of their native ecosystems. This approach is beneficial when a plant species is critically endangered or when threats to its survival in the wild are imminent.

Which Of The Following Are Some Important Pollutants Released By Steel Industry In India

- 1) Oxides of Sulphur
- 3) Carbon monoxide

- 2) Oxides of nitrogen
- 4) Carbon dioxide

A. 1,2,3

B. 2 & 3

C. 1, 3, 4

D. All Of The Above

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In The Context Of Development In Bio Informatics, Term 'Transcriptome', Refer To

- A. A Range Of Enzymes Used In Genome Editing
- B. The Full Range Of mRNA Molecules Expressed By An Organism
- C. The Description Of The Mechanism Of Gene Expression
- D. A Mechanism Of Genetic Mutations Taking Place In Cells

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The Transcriptome is the set of RNA molecules in a cell or population of cells. It includes messenger RNA (mRNA), transfer RNA (tRNA), ribosomal RNA (rRNA), and other noncoding RNA molecules.

In Dry Regions, The Leaf Size Of A Tree Becomes Smaller. It Is So To

- A. Reduce Metabolism
- B. Reduce Transpiration
- C. Maintain Natural Growth
- D. Protect Plant From Animals

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In Dry Regions, Trees Undergo Certain Adaptations To Cope With The Limited Water Availability. One Of These Adaptations Is Reducing The Size Of Their Leaves. The Process Behind This Is To Reduce Transpiration.

The Concept Of Ecological Niche Was First Introduced By

- A. C.C. Park
- B. E.P. Odum
- C. J. Grinnell
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Joseph Grinnell was the first person to introduce the concept of ecological niche use in his 1917 paper titled “The niche relationships of the California Thrasher”.

Ecological niche is a term for the position of a species within an ecosystem, describing both the range of conditions necessary for persistence of the species, and its ecological role in the ecosystem.

Which One Of The Following Statements Is Correct

- A. The Relative Loss Of Energy Due To Respiration Is Lower From Higher Trophic Levels.
- B. Species At Higher Trophic Levels Appear To Be Less Efficient In Using Their Available Food Supply.
- C. Higher Trophic Levels Tend To Be Less Discrete Than The Lower Ones.
- D. Food Chains Tend To Be Reasonably Long.

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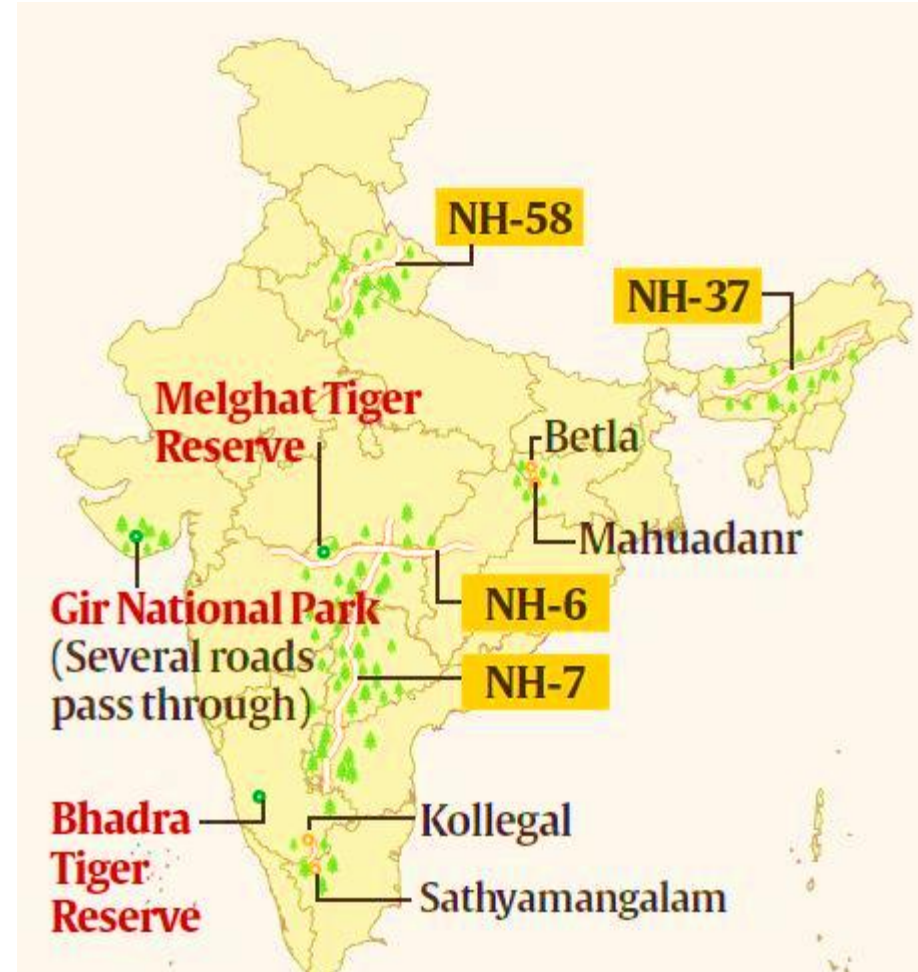
The Relative Loss Of Energy Increases In Successive Trophic Levels. Primary Consumers Use 10% Of The Energy Stored In Plants. Secondary And Tertiary Consumers Transfer 20% Of The Energy From Their Own Bodies So They Are More Efficient. In Going From Lower To Higher Trophic Levels, Energy Transfers Are Insufficient Thus Making The Food Chains Limited To Only 4-5 Trophic Levels. Higher Trophic Levels Are Less Discrete Due To Their Less Specialised Food Habits.

From Ecological Point Of View, Which One Of Following Assumes Importance In Being A Good Link Between Eastern Ghats & Western Ghats

- A. Sathyamangalam Tiger Reserve
- B. Nallamala Forest
- C. Nagarhole National Park
- D. Seshachalam Biosphere Reserve

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Pick Up The Correct Food Chain

- A. Grass → Chameleon → Insect → Bird
- B. Grass → Fox → Rabbit → Bird
- C. Phytoplankton → Zooplankton → Fish
- D. Fallen Leaves → Bacteria → Insect Larvae.

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Upper Part Of Sea/Aquatic Ecosystem Contains

- A. Plankton
- B. Nekton
- C. Plankton And Nekton
- D. Benthos.

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Which Of Following Statement Is True About The Ecotone

- A. It Is Meeting Place Of Two Different Eco Systems
- B. It Is Meeting Place Of Two Same Eco Systems
- C. Density Of Species Is Very Low Here
- D. All Of The Above.

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Ecotone Is A Place Where Two Different Eco Systems Meet Each Other. Mangrove And Terrestrial Eco System Is An Example Of Ecotone. This Area Is Very Rich In Species. The Ecotone Has Species Of Both Ecosystems As Well As Some Species Which Are Characteristic And Restricted To The Ecotone.

In A Forest, Deer, Raccoons, Squirrels, And Other Animals Eat And Find Shelter. A Detritus Food Web Occurs As Their Wastes Accumulate On The Forest Floor. In This Detritus Web:

- A. Deer And Raccoons Function As The Producers
- B. Fungi And Earthworms Function As Producers
- C. Decomposers Function As Consumers
- D. The Deer And Raccoons Represent Decomposers

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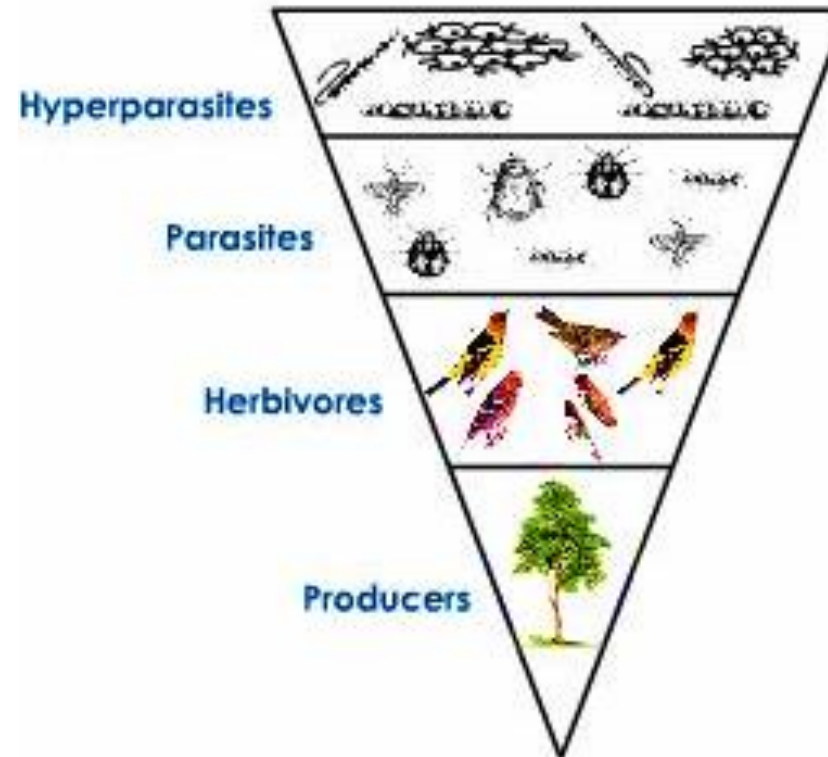
In The Detritus Food Web The Primary Source Of Energy Or The 'Producer' Is The Detritus, The Primary Consumers Are The Detersives Such As Bacteria, Protozoa, Fungi Etc. The Secondary Consumers Are The Nematodes, Insect Larve Which Feed On The Detersives

In Case Of A Parasitic Food Chain, Shape Of Pyramid Of Number Is Always

- A. Upright
- B. Linear
- C. Inverted
- D. Not certain

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Inverted pyramid of number

The Cause Of Eutrophication Appears To Be Pollution That Contains High Levels Of

- A. Nitrogen And Carbon
- B. Nitrogen And Phosphorus
- C. Carbon And Phosphorus
- D. Carbon, Nitrogen And Phosphorus

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Eutrophication Is The Process In Which A Water Body Becomes Overly Enriched With Nutrients, Leading To The Plentiful Growth Of Simple Plant Life. The Excessive Growth (Or Bloom) Of Algae And Plankton In A Water Body Are Indicators Of This Process.

Consider The Following Statements:

Assertion (A): Amensalism Is A Negative Interaction Between Two Living Individuals.

Reason (R): In Amensalism, Allochemicals Are Secreted By One Individual.

- A. Both A And R Are True, R Is Correct Explanation Of A.
- B. Both A And R Are True, But R Is Not The Correct Explanation Of A.
- C. A Is True, R Is False.
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Table 13.1 : Population Interactions

Species A	Species B	Name of Interaction
+	+	<i>Mutualism</i>
-	-	<i>Competition</i>
+	-	<i>Predation</i>
+	-	<i>Parasitism</i>
+	0	<i>Commensalism</i>
-	0	<i>Amensalism</i>

Consider The Following Kinds Of Organisms And Identify The Pollinating Agent/Agents

- A. Bat And Bee But Not Bird
- B. Bee, Bat And Birds
- C. Hummingbird But Not Bee
- D. Wind, Bee, Bat, Birds.

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Which National Parks Is Unique In Being A Swamp With Floating Vegetation That Supports A Rich Biodiversity

- A. Bhitarkanika National Park
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- C. Keoladeo Ghana National Park
- D. Sultanpur National Park

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Keibul Lamjao National Park Is A National Park In The Bishnupur District Of Manipur, India. It Was Established On March 28, 1977 And Is 40 Square Kilometers In Area. The Park Is The Only Floating National Park In The World And Is Part Of Loktak Lake.

Which One Of The Following Is The Best Description Of The Term 'Ecosystem'

- A. A Community Of Organisms Interacting With One Another.
- B. That Part Of The Earth Which Is Inhabited By Living Organisms.
- C. A Community Of Organisms Together With The Environment In Which They Live
- D. The Flora And Fauna Of A Geographical Area

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Match List-I with List-II

List-I		List-II		A	B	C	D	
A.	Biodiversity	1.	G. Tansley	A.	2	4	3	1
B.	Wildlife	2.	E.O. Wilson	B.	2	4	1	3
C.	Ecosystem	3.	E. Haeckel	C.	4	2	3	1
D.	Ecology	4.	W.T. Hornaday	D.	4	2	1	3

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In India, In Which One Of Following Types Of Forests Is Teak A Dominant Tree Species

- A. Tropical Moist Deciduous Forest
- B. Tropical Rain Forest
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- D. Temperate Forest With Grasslands

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Main Species Of Tropical Moist Deciduous Forests: Teak, Sal, Sheshum, Amla, Kusum, Mahua, Sandalwood

'Bio Carbon Fund Initiative For Sustainable Forest Landscapes' Is Managed By The

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- B. International Monetary Fund
- C. United Nations Environment Programme
- D. World Bank

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BioCarbon Fund
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- A. Ecosystem's Structure, Species Composition And Functioning Change Seasonally Between Years.
- B. Nature Has Spent Millions Of Years To Refine A Stable Ecosystem.
- C. Ecosystem Functions Mainly Through The Input Of Solar Energy
- D. The Relative Loss Of Energy Due To Respiration Decreases With Higher Trophic Levels.

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As We Go Higher In The Trophic Levels Through The Food Chain, The Loss Of Energy Due To Respiration As Well As Metabolic Activities Successively Increase. So, There Occurs The Transference Of Only 10% Of The Preceding Trophic Level To The Next Higher Trophic Level.

Consider The Following Statements:

Assertion (A): Plants Are Called Primary Producers

Reason (R): Plants Produce Their Food Themselves Through The Process Of Photosynthesis

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As An Ecosystem, Wetlands Are Useful For Which Of Following

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- B. For Releasing Heavy Metals Through Absorption By Plants.
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In Nitrogen Cycle, Soil Nitrates Are Transformed Into Free Nitrogen By

- A. Nitrifying Bacteria
- B. Denitrifying Bacteria
- C. Ammonifying Bacteria
- D. Both (A) And (C)

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During Denitrification, Nitrates Are Reduced To Nitrites And Then To Nitrogen Gas And Ammonia. It Is Carried Out By Denitrifying Bacteria Such As Thiobacillus Denitrificans, Micrococcus Denitrificans, Pseudomonas Species Etc.

Which One Of Following Is Not Helpful In Maintaining Ecological Stability

- A. Ecosystem Complexity
- B. Ecosystem Diversity
- C. Ecosystem Uniformity
- D. Homeostatic Mechanism

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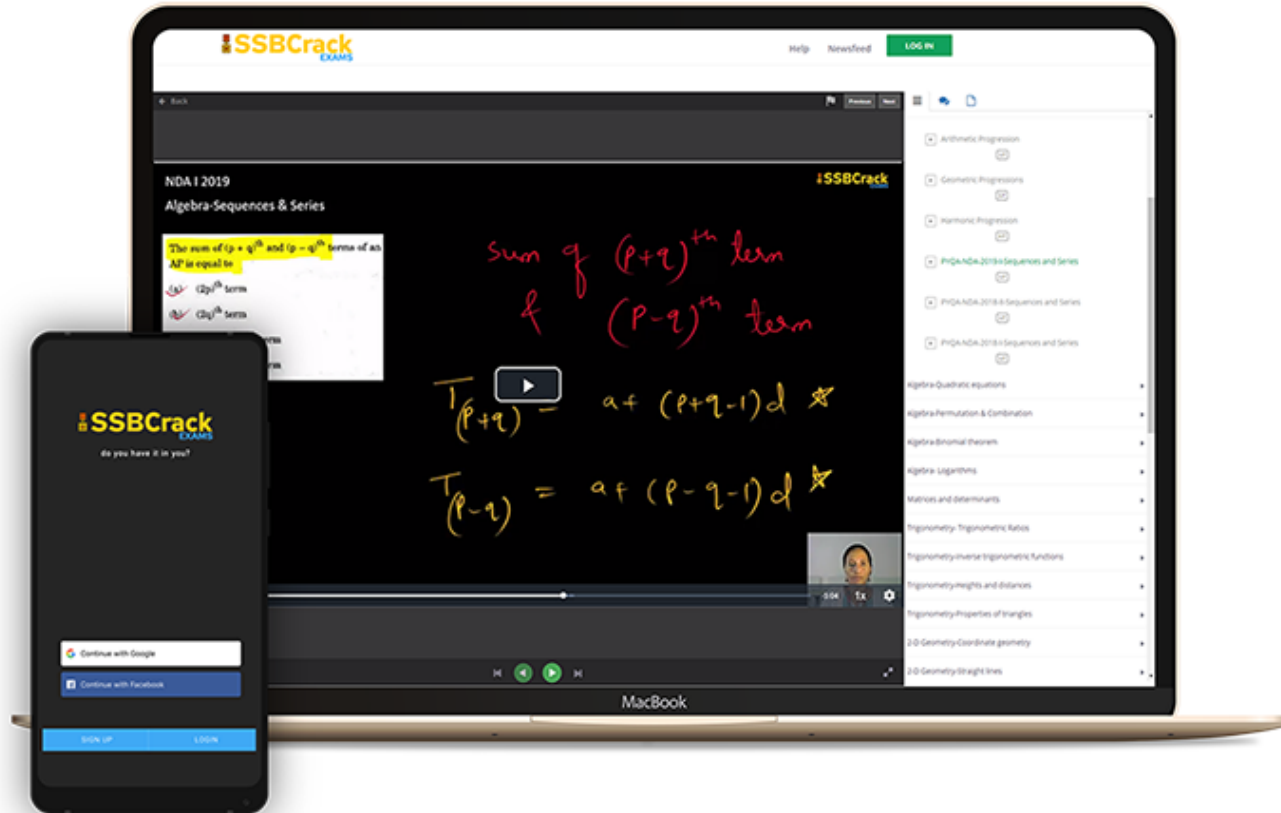
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