

Environment & Ecology (Q-83)

Q1113) India's updated climate commitment for 2035 includes which emissions-intensity target?

- A)** Cutting agricultural methane emissions by 75% nationwide
B) Achieving complete industrial decarbonisation by the year 2035
C) Reducing fossil fuel consumption by 90% from 2020 levels
D) Reducing emissions intensity of GDP by 47% from 2005 levels

17 Aug, 2026 (4:30 PM - 6:00 PM)

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Q1114) Under the Solid Waste Management Rules 2026, into how many streams must solid waste be segregated at its source?

- A)** Three streams **B)** Five streams **C)** Four streams **D)** Two streams

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Q1115) During the severe heatwave conditions reported in 2026, India accounted for 95 of the world's 100 hottest cities, highlighting growing concerns regarding rising temperatures and climate-related risks. This issue is most directly associated with which Sustainable Development Goal (SDG) of the United Nations?

- A)** SDG 6 **B)** SDG 13 **C)** SDG 15 **D)** SDG 11

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Q1116) Why do non-biodegradable substances show biological magnification?

- A)** They are not taken up by organisms **B)** They are broken down quickly by organisms
C) They persist in organisms **D)** They provide energy to organisms

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Q1117) Most of the energy fixed by autotrophs is _____ at each trophic level.

- A)** Converted into organic matter **B)** Lost to the environment as heat **C)** Utilized for locomotion
D) Stored in the organism

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Q1118) According to the NITI Aayog study titled "Scenarios Towards Viksit Bharat and Net Zero", India aims to achieve Net Zero greenhouse gas emissions by what target year?

- A)** 2060 **B)** 2047 **C)** 2070 **D)** 2050

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Q1119) According to the new Solid Waste Management Rules, 2026, notified by the Government of India, which principle has been specifically incorporated to ensure that polluters bear the financial burden of improper waste disposal?

- A)** Absolute Liability Principle **B)** Sustainable Development Principle **C)** Polluter Pays Principle
D) Precautionary Principle

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Q1120) In 2026, the Government of India notified amendments to the Plastic Waste Management Rules, making it mandatory for producers and brand owners to use what type of material in plastic packaging to promote circular economy practices?

- A)** Imported compostable packaging material **B)** Recycled plastic content
C) Bamboo-based polymer substitutes **D)** Biodegradable metallic coatings

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Q1121) In a grassland food chain, the maximum accumulation of a chemical pesticide would be found in:

- A)** Frog **B)** Hawk **C)** Grasshopper **D)** Grass

05 Aug, 2026 (12:45 PM - 2:15 PM)

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Q1122) Excessive atmospheric CO₂ increases its dissolution in ocean water. This makes seawater more _____.

- A)** Neutral **B)** Basic **C)** Oxygenated **D)** Acidic

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Q1123) If a non-biodegradable chemical enters the food chain at a concentration of 0.02 ppm in water, what will happen over time?

- A)** It will show maximum accumulation at the highest trophic level **B)** It will remain only within the producers
C) Its concentration will decrease at higher trophic levels **D)** It will disappear completely from the ecosystem

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Q1124) Why does biological magnification increase at higher trophic levels?

- A)** Chemicals are not degraded and accumulated at each trophic level
B) Chemicals are degraded and accumulated only at higher trophic levels
C) Water content increases at each trophic level **D)** Energy increases at higher levels in food chain

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Q1125) Which of the following organisms is likely to occupy more than one trophic levels?

- A)** Rabbit **B)** Tiger **C)** Peacock **D)** Deer

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RRBJE PYQ ? RRB Previous Year Questions

Q1126) A conservation biologist is designing a strategy to protect the Nilgiri tahr, which is found only in a specific Indian region. Which approach would be most appropriate for its conservation, based on its classification?

- A)** Creating generic wildlife reserves **B)** Focusing on its endemic habitat in the Western Ghats
C) Prioritizing widespread species elsewhere **D)** Relocating species to other regions

14 Aug, 2026 (12:45 PM - 2:15 PM)

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Q1127) What is the primary objective of India's National Clean Air Programme (NCAP) by 2025–26?

- A)** Replacing thermal power plants with hydroelectric stations nationwide
B) Introducing carbon taxes on household electricity consumption
C) Achieving up to 40% reduction in PM10 concentrations in targeted cities
D) Banning all diesel-operated public transport in urban regions

21 Aug, 2026 (9:00 AM - 10:30 AM)

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Q1128) As per the 2026 NITI Aayog report, which sector was identified as the largest contributor to India's greenhouse gas emissions, prompting targeted emission reduction strategies?

- A)** Energy production including coal-based power plants **B)** Transportation systems and logistics
C) Industrial manufacturing and processing **D)** Agriculture and allied activities

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Q1129) Which of the following best describes a food web?

- A)** Relationship between producers in different food chains
B) Interconnections between trophic levels in several food chains
C) Role of decomposers at multiple trophic levels in food chains
D) Bidirectional pathway of energy transfer in food chains

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Q1130) A conservation biologist is prioritizing areas for protection. She notices a region with many species unique to that area, and much of its habitat has been destroyed. Based on definition, which term best describes this region?

- A)** Endemic region **B)** Biodiverse ecosystem **C)** Biodiversity hotspot **D)** Ecological niche

11 Aug, 2026 (9:00 AM - 10:30 AM)

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Q1131) Which of the following statements is correct about energy flow in an ecosystem?

- A)** Energy remains constant within the ecosystem
B) Most energy is used for building biomass within the ecosystem
C) Energy is recycled by decomposers within the ecosystem **D)** Energy flows in one direction in the ecosystem

11 Aug, 2026 (12:45 PM - 2:15 PM)

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Q1132) Which principle was emphasized in India's E-Waste Management framework during 2025-26?

- A)** Elimination of digital communication devices from government educational institutions and offices
B) Mandatory export of all discarded electronic products to overseas hazardous waste processing facilities
C) Extended producer responsibility for the environmentally sound collection and recycling of electronic junk
D) Complete prohibition of domestic electronics manufacturing within urban industrial clusters nationwide

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Q1133) Why are food webs considered more stable than food chains?

- A)** They display multiple feeding possibilities **B)** They have a larger number of producers
C) They do not contain any carnivores **D)** They show no energy transfer between trophic levels

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Q1134) All of the following are consequences of overuse of nitrogen fertilisers, **EXCEPT** ____.

- A)** Soil and water degradation **B)** Algal bloom formation **C)** Fish death due to oxygen depletion
D) Increased oxygen in water bodies

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Q1135) A coastal region experiences algal blooms and coral bleaching after unusually high global temperatures. Which interaction between Earth's spheres best explains this effect?

- A)** Increased river flow improves the overall coral reef growth
- B)** Ocean warming lowers CO₂ absorption and stresses marine life
- C)** Land plant growth completely replaces marine ecosystem loss
- D)** Reduced sunlight increases rate of photosynthesis in oceans

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Q1136) In a food chain: Grass → Grasshopper → Frog → Snake → Eagle, the accumulation of DDT will be highest in _____.

- A)** Grasshopper
- B)** Grass
- C)** Frog
- D)** Eagle

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Q1137) A city implements stricter vehicle emission norms, reducing smog and ground-level ozone formation. Which spheres of earth are directly influenced by this policy?

- A)** Atmosphere and biosphere
- B)** Lithosphere and atmosphere
- C)** Lithosphere and hydrosphere
- D)** Hydrosphere and biosphere

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Q1138) As of March 2026, India's position as the fourth-largest global wind energy producer contributes to which of the following national priorities under SDG frameworks?

- A)** Focusing on urban infrastructure development
- B)** Transitioning to a low-carbon economy
- C)** Promoting only rural electrification
- D)** Enhancing agricultural exports

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Q1139) In a food chain, the maximum concentration of non-biodegradable pollutants would be found in:

- A)** Herbivores
- B)** Top carnivores
- C)** Producers
- D)** Decomposers

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Q1140) Which way did the Sangam Tinai classification and sacred groves help conserve biodiversity?

- A)** They introduced exotic species
- B)** They increased agricultural output
- C)** They classified all Indian species
- D)** They preserved locally diverse habitats

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Q1141) A prolonged drought in a forest causes widespread plant death. Based on the Earth's interconnected spheres, a likely consequence of this is:

- A)** Stable carbon dioxide levels in the biosphere **B)** Immediate rise in nitrogen levels in rocks
C) Disrupted oxygen balance across spheres **D)** Increased oxygen production in the atmosphere

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Q1142) In a grassland ecosystem, which organisms will show the largest number of individuals?

- A)** Hawk **B)** Grass **C)** Snake **D)** Frog

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Q1143) Which of the following is an example of an artificial ecosystem?

- A)** Lake **B)** Crop-field **C)** Forest **D)** Pond

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Q1144) In 2026, the Government of India expanded the "Namami Gange Mission" by launching new aquatic biodiversity conservation initiatives for the Ganga river ecosystem. This initiative is most directly linked with which Sustainable Development Goal (SDG)?

- A)** SDG 5 – Gender Equality **B)** SDG 14 – Life Below Water **C)** SDG 16 – Peace, Justice and Strong Institutions
D) SDG 8 – Decent Work and Economic Growth

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Q1145) The Paris Climate Agreement, from which the United States announced its withdrawal on 7 January 2026, was adopted under the framework of which international convention?

- A)** Vienna Convention for the Protection of the Ozone Layer **B)** Convention on Biological Diversity
C) United Nations Convention to Combat Desertification
D) United Nations Framework Convention on Climate Change

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Q1146) Which type of pollutants is mainly responsible for biological magnification?

- A)** Non-biodegradable pollutants **B)** Thermal pollutants **C)** Decomposable pollutants **D)** Noise pollutants

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Q1147) Which of the following groups of organisms are NOT classified as consumers?

- A)** Producers **B)** Decomposers **C)** Herbivores **D)** Carnivores

20 Aug, 2026 (9:00 AM - 10:30 AM)

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Q1148) Why are food chains generally made of only 3-4 trophic levels?

- A)** Producer population is low **B)** Top carnivores cannot be eaten by any organism
C) Energy availability to next trophic level is very low **D)** Decomposers terminate the food chain

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Q1149) Why cannot pesticide residues always be removed from food by washing?

- A)** Because they are accumulated within the tissues **B)** Because they evaporate easily
C) Because they are present only on the surface **D)** Because they dissolve in water

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Q1150) Why top-level consumers are most affected by biological magnification in a food chain?

- A)** They accumulate the highest concentration of toxins through the food chain
B) They are primary producers and thus first to be exposed to toxins
C) They eat less quantity of food compared to others **D)** They have the shortest lifespan in the ecosystem

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RRBJE PYQ ? RRB Previous Year Questions

Q1151) All of the following processes consume atmospheric oxygen, EXCEPT:

- A)** Respiration by plants **B)** Photosynthesis by green plants **C)** Combustion of fossil fuels
D) Respiration by animals

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Q1152) A wildlife reserve in the Western Ghats is losing forest cover rapidly. Which statement best explains why this region is a global conservation priority?

- A)** It is a vast region with only widely distributed species
B) It is a biodiversity hotspot with many endemic species **C)** It is a crucial path used by migratory birds
D) It is a dry desert ecosystem that has few species

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Q1153) Increase in concentration of harmful chemicals progressively through the trophic levels is called ____.

- A)** Biomagnification **B)** Recycling **C)** Pollution **D)** Decomposition

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Q1154) In 2026, the Government of India promoted green hydrogen initiatives mainly to support which SDG?

- A) SDG 2 – Zero Hunger B) SDG 7 – Affordable and Clean Energy C) SDG 10 – Reduced Inequalities
D) SDG 15 – Life on Land

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Q1155) Food webs help in maintaining ecosystem stability because they:

- A) provide alternative food sources B) increase competition C) stop energy flow
D) reduce the number of consumers

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Q1156) A zoologist identifies the Lion-tailed macaque population declining due to fragmentation of its forest habitat. Which is the most likely ecological consequence if this trend continues?

- A) Loss of endemic species unique to the region B) Spread of invasive species from outside
C) Increase in migratory bird populations D) Introduction of common widespread species

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Q1157) Which of the following sequence **CORRECTLY** represents the movement of water in nature?

- A) Precipitation → Runoff → Evaporation B) Evaporation → Precipitation → Condensation
C) Evaporation → Condensation → Precipitation D) Condensation → Precipitation → Evaporation

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Q1158) Which action taken by us can directly reduce biological magnification?

- A) Reducing the use of chemical pesticides on crops B) Washing the food grains thoroughly before use
C) Eating meat rather than food grains D) Burning crop residues after harvesting

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Q1159) Which group of organisms depends solely and directly on producers for food?

- A) Omnivores B) Carnivores C) Decomposers D) Herbivores

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Q1160) All of the following are ways to restore Earth's natural systems EXCEPT, _____.

- A) Save water and recycle waste B) Plant trees and practice sustainable farming C) Use solar and wind energy
D) Increase fossil fuel use

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Q1161) The difference between a food chain and a food web is that:

- A)** a food chain represents a single linear pathway, while a food web shows interconnected feeding relationships
- B)** energy transfer efficiency is higher in food chains than in food webs
- C)** a food chain always involves decomposers, while food webs do not
- D)** food chains exist in aquatic ecosystems, while food webs are only in terrestrial ecosystems

18 Aug, 2026 (12:45 PM - 2:15 PM)

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Q1162) Which human activity helps reduce disruption of the carbon cycle?

- A)** Overuse of fertilisers **B)** Increasing fossil fuel use **C)** Adoption of solar energy **D)** Deforestation

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Q1163) In a food web, herbivores are generally:

- A)** Decomposers **B)** Producers **C)** Secondary consumers **D)** Primary consumers

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Q1164) A city observes increased waste generation due to lifestyle changes and disposable packaging. What is the most effective solution to minimize environmental impact according to waste management principles?

- A)** Promoting segregation and recycling of non-biodegradable waste **B)** Burning all waste to reduce volume
- C)** Increasing landfill space for all waste **D)** Ignoring segregation and focusing only on biodegradable waste

19 Aug, 2026 (4:30 PM - 6:00 PM)

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Q1165) Which of the following environmental problems is related to the penetration of harmful UV rays into our atmosphere?

- A)** Ozone hole **B)** Global warming **C)** Greenhouse effect **D)** Acid rain

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Q1166) Why are non-biodegradable wastes considered more dangerous than biodegradable wastes?

- A)** They release oxygen **B)** They increase the microbial activity **C)** They decompose rapidly
- D)** They persist in the environment

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Q1167) In a grassland food web, grass is eaten by rabbits and insects. Frogs eat insects, while foxes eat rabbits. If insect population declines sharply, which effect is most likely?

- A)** Rabbit population will diminish **B)** Frog population will suddenly decrease
C) Fox population will increase rapidly **D)** Grass population will perish

11 Aug, 2026 (12:45 PM - 2:15 PM)

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Q1168) Consider the following statements and select the correct option.

Statement 1: Food chains in an ecosystem are interlinked to form a food web.

Statement 2: Food webs show the interdependence of organisms.

- A)** Both statements are true **B)** Both statements are false **C)** Statement 1 is false and Statement 2 is true
D) Statement 1 is true and Statement 2 is false

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Q1169) What is the role of decomposers in an ecosystem?

- A)** Bring about the death of plants **B)** Break down dead remains of organisms
C) Synthesize organic substances from inorganic substances **D)** Convert light energy into chemical energy

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Q1170) A city is planning to build a new power plant and is choosing between several energy generation options. If the primary goal is to maximize the use of renewable and environmentally friendly energy, which option should the city select?

- A)** A conventional nuclear power complex **B)** A utility-scale solar photovoltaic farm
C) A high-capacity natural gas station **D)** A large-scale coal-fired facility

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Q1171) Which of the following practices can reduce the volume of non-biodegradable waste?

- A)** Dump all waste in water bodies **B)** Use reusable and recyclable products **C)** Use disposable plates and cups
D) Mix non-biodegradable waste with soil

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Q1172) A science student is asked to explain why the Indian landscape supports high biodiversity. Which explanation best integrates the concepts of habitat diversity and endemism?

- A)** Exclusive agriculture increases species variety **B)** Focusing only on deserts enhances diversity
C) Varied habitats create conditions for many endemic species **D)** Single climate promotes species uniformity

Q1173) Climate change increases rainfall in the Western Ghats and alters the ecosystem. Which long-term effect could this have on endemic species in the region?

- A)** Endemic species will spread to new regions **B)** Endemic species will increase in population
C) Endemic species will not be affected **D)** Endemic species may struggle to survive and adapt

05 Aug, 2026 (9:00 AM - 10:30 AM)

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Q1174) Why is depletion of the ozone layer by chlorofluorocarbons (CFCs) considered dangerous for organisms?

- A)** It leads to an increase in atmospheric oxygen levels **B)** It leads to the generation of infrared radiation
C) It leads to an decrease in rainfall **D)** It leads to penetration of UV rays into the atmosphere

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Q1175) Which statement correctly explains the role of decomposers in an ecosystem?

- A)** They break down organic substances into simple inorganic substances
B) They convert solar energy into chemical energy **C)** They occupy the first trophic level
D) They increase atmospheric pollution

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RRBJE PYQ ? RRB Previous Year Questions

Q1176) Which of the following pairs correctly represents biodegradable and non-biodegradable substances, respectively?

- A)** Metal – Food waste **B)** Plastic – Cotton **C)** Glass – Leaves **D)** Paper – Plastic

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Q1177) Which of the following combinations best supports sustainable development?

- A)** Fossil fuels + deforestation **B)** Overuse of water + plastic production **C)** Renewable energy + tree plantation
D) Industrial expansion + waste dumping

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Q1178) Why is composting considered environmentally beneficial?

- A)** It increases non-biodegradable waste **B)** It generates biodegradable waste **C)** It releases toxic gases
D) It converts organic waste into useful manure

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Q1179) In an ecosystem, what is the role played by decomposers?

- A)** They regulate the water level in soil **B)** They break down dead organic matter
C) They transfer energy directly to carnivores **D)** They synthesize food by photosynthesis

06 Aug, 2026 (12:45 PM - 2:15 PM)

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Q1180) Which of the following chemical compounds is mainly responsible for ozone depletion in the upper atmosphere?

- A)** Sulphur dioxide **B)** Chlorofluorocarbons **C)** Methane **D)** Oxides of nitrogen

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Q1181) Which of the following is NOT biodegradable?

- A)** Paper **B)** Wool **C)** Plastic **D)** Leather

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Q1182) What is the main environmental concern associated with non-biodegradable waste?

- A)** It improves soil fertility **B)** It breaks down easily in nature **C)** It is quickly recycled by organisms
D) It accumulates and causes pollution

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Q1183) Which sequence correctly represents the increase in concentration of a pesticide in a food chain?

- A)** Hawk → Snake → Frog → Grasshopper → Grass **B)** Grasshopper → Grass → Frog → Hawk → Snake
C) Grass → Grasshopper → Frog → Snake → Hawk **D)** Grass → Frog → Grasshopper → Snake → Hawk

11 Aug, 2026 (9:00 AM - 10:30 AM)

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Q1184) In a garden ecosystem with rose plants, jasmine plants, insects, snake, and birds, which group captures solar energy and converts it into food for other organisms?

- A)** Insects **B)** Birds **C)** Rose and Jasmine plants **D)** Rose plant only

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Q1185) Which of the following devices earlier used CFCs extensively?

- A)** Solar cooker **B)** Refrigerator **C)** Water purifier **D)** Bicycle

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Q1186) If all the snakes in a food chain disappear, what will be the immediate effect on the food chain?

- A)** Tree population will decrease **B)** Tiger population will increase **C)** Grass population will decrease
D) Frog population will increase

21 Aug, 2026 (4:30 PM - 6:00 PM)

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Q1187) Which of the following statements regarding biodegradable waste is correct?

- A)** It can be decomposed by biological processes **B)** It consists of man-made substances
C) It persists in the environment **D)** It cannot be recycled

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Q1188) In an ecosystem, the organisms that recycle nutrients by breaking down dead matter are called:

- A)** Decomposers **B)** Herbivores **C)** Consumers **D)** Producers

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Q1189) Which of the following is considered as a nonbiodegradable substance?

- A)** Banana leaves **B)** Cotton dresses **C)** Wooden plates **D)** Plastic bags

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Q1190) If the ozone layer becomes thinner, which of the following could happen on Earth?

- A)** Increase in ultraviolet radiation reaching Earth **B)** Reduction in oxygen levels
C) Decrease in sunlight reaching plants **D)** Cooling of the Earth's atmosphere only

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Q1191) The primary harmful effect of UV radiation on humans, if not blocked by the ozone layer, is:

- A)** anaemia **B)** skin cancer **C)** hypertension **D)** asthma

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Q1192) Which of the following best defines an ecosystem?

- A)** A group of plants only **B)** A community without physical factors **C)** A habitat containing animals only
D) A system formed by the interaction of biotic and abiotic components

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Q1193) Why are non biodegradable substances harmful to the environment?

- A)** They persist for a long time and may harm organisms **B)** They enrich the soil
C) They increase the oxygen level in air **D)** They decompose very quickly

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Q1194) Which of the following correctly represents a food chain?

- A)** Grass → Deer → Tiger **B)** Tiger → Grass → Deer **C)** Grass → Tiger → Deer **D)** Deer → Grass → Tiger

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Q1195) What is the main function of the ozone layer in the upper part of the atmosphere?

- A)** Causing rainfall **B)** Producing oxygen to support aerobic life
C) Absorbing ultraviolet radiation coming from the sun **D)** Increasing atmospheric carbon dioxide levels

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