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**TEST BOOKLET
GENERAL STUDIES
Paper-I**

A

Time Allowed : Two Hours

Maximum Marks : 200

INSTRUCTIONS

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2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate place in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside . *DO NOT* write *anything else* on the Test Booklet.
4. This Test Booklet contains **100** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark all your responses *ONLY* on the separate Answer Sheet provided.
6. **All** items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator only the *Answer Sheet*. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong Answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
(i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
(ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
(iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>1. The Acid Rain Retirement Fund (A.R.R.F) is an all-volunteer, non-profit environmental educational organization dedicated to reducing pollution by purchasing and "retiring" marketable sulfur dioxide emissions allowances issued by the U.S. Environmental Protection Agency's Acid Rain Program.</p> <p>Which of the following gas emission is targeted to be reduced under this program?</p> <p>(a) Carbon dioxide (b) carbon monoxide (c) Methane (d) Sulphur dioxide</p> <p>2. Which of the following statements are correct about the Copenhagen Accord?</p> <p>1. The Copenhagen Accord was the main outcome of COP15 2. India was also a party to its draft 3. It recognises that climate change is one of the greatest challenges of the present and that actions should be taken to keep any temperature increases to below 2°C 4. It constitutes a binding agreement on the signatory nations</p> <p>(a) 1, 3 and 4 (b) 2, 3 and 4 (c) 1, 2 and 3 (d) 1, 2, 3 and 4</p> <p>3. Which of the following is the market-based trading system to reduce carbon emission rates?</p> <p>1. Cap and Dividend 2. Cap and trade</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p> <p>4. The basic principle of Cap and Share is</p> <p>(a) Reducing carbon emissions (b) Lowering global temperature (c) Earth's atmosphere is a fundamental common resource (d) Reducing Sulphur dioxide emissions</p>	<p>5. One carbon credit is equal to</p> <p>(a) one ton of carbon dioxide (b) one cubic metre of carbon dioxide (c) one cubic feet of carbon dioxide (d) one kilogram of carbon dioxide</p> <p>6. Which of the following constitutes fossil fuels?</p> <p>1. coal 2. electricity derived from coal 3. natural gas 4. oil</p> <p>(a) 1 only (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4</p> <p>7. Which of the following statements are correct about the Clean Development Mechanism?</p> <p>1. The Clean Development Mechanism allows the offset of emissions in developed countries by the investment in emission reduction projects in developing countries like China, India or Latin America 2. It is recognised through the Kyoto Protocol</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>8. Which of the following statements are correct about India's Biosphere reserves?</p> <p>1. India has set up 13 Biospheres 2. 3 Biosphere Reserves from India are included in the UNESCO's World Network</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>9. Coral Reefs are built of</p> <p>(a) Calcium carbonate (b) Magnisium carbonate (c) Calcium sulphate (d) All of the above</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>10. Match the following coral reefs with their location?</p> <p>A. Fringing reefs ----- 1. Gulf of Kutch B. Platforms reefs ----- 2. Gulf of Mannar C. Atoll Reefs ----- 3. Lakshadweep Archipelago</p> <p>(a) A-1, B-2, C-3 (b) A-3, B-1, C-2 (c) A-2, B-3, C-1 (d) A-2, B-1, C-3</p> <p>11. Biodiversity manifests at</p> <p>(a) species levels (b) genetic levels (c) ecosystem levels (d) All of the above</p> <p>12. Biosafety Protocol relates to minimizing the potential risk to human health and environment from</p> <p>(a) plant species (b) animal species (c) modified organisms (d) living modified organisms</p> <p>13. Arrange the following countries in the increasing order of per capita GHG emissions</p> <p>1. China 2. Russia 3. Japan 4. India 5. USA</p> <p>(a) 4, 3, 1, 2 and 5 (b) 4, 1, 2, 3 and 5 (c) 4, 1, 3, 2 and 5 (d) 1, 4, 3, 2 and 5</p> <p>14. Over the past century India has observed an increase of ----- in surface air temperatures at the national level</p> <p>(a) 0.2° C (b) 0.3° C (c) 0.4° C (d) 0.5° C</p>	<p>15. Which of the following statements are correct about the extreme weather events in India over the past 130 years?</p> <p>1. There is no long-term trend in the frequencies of large-scale droughts and floods 2. More frequent and less severe droughts</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>16. Which of the following statements are correct about the sea level rise in India?</p> <p>1. The sea level rise in India has been between 1.06-1.75 mm per year 2. This is significantly lower than the global sea level rise estimates of IPCC</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>17. Which of the following statements are correct?</p> <p>1. India gets on an average 1197 mm of rainfall every year 2. The total precipitation in India is 4000 billion m³ 3. Nearly 75% of this precipitation is lost due to run off</p> <p>(a) 1 only (b) 2 only (c) 1 and 2 (d) 1, 2 and 3</p> <p>18. The Dryland Agriculture constitutes how much of the net cultivated area?</p> <p>(a) 30% (b) 40% (c) 50% (d) 60%</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>19. Which of the following crop is the most carbon responsive?</p> <p>(a) C-1 (b) C-2 (c) C-3 (d) C-4</p> <p>20. Arrange the following energy sources in the increasing order of energy mix in electricity generation in India?</p> <p>1. Coal 2. Oil and gas 3. Wind and solar power 4. Hydropower 5. Nuclear power</p> <p>(a) 3, 5, 2, 4, 1 (b) 5, 3, 4, 2, 1 (c) 5, 3, 2, 4, 1 (d) 5, 2, 3, 4, 1</p> <p>21. India's current technical losses during transmission and distribution are</p> <p>(a) 10%-12% (b) 14%-16% (c) 16%-19% (d) 20%-24%</p> <p>22. The hydroelectric capacity currently under operation in India is</p> <p>(a) 24,000 MW (b) 28,000 MW (c) 32,000 MW (d) 38,000 MW</p> <p>23. Which of the following activity is the major contributor to increasing methane and nitrous oxide concentrations in earth's atmosphere</p> <p>(a) Oil and Gas (b) Mining (c) Agriculture (d) Industrial sector</p> <p>24. Arrange the following sectors in the increasing order of annual greenhouse emission?</p>	<p>1. Water disposal and treatment 2. Industrial process 3. Land use and biomass burning 4. Transportation fuels 5. Power stations 6. Agricultural byproducts</p> <p>(a) 1, 4, 6, 3, 2 and 5 (b) 1, 3, 2, 4, 6 and 5 (c) 1, 3, 6, 4, 2 and 5 (d) 3, 1, 6, 4, 2 and 5</p> <p>25. Arrange the following sectors in the increasing order of their carbon dioxide emission?</p> <p>1. Agricultural byproducts 2. Industrial process 3. Transportation fuels 4. Power stations</p> <p>(a) 1, 2, 3 and 4 (b) 1, 3, 2 and 4 (c) 3, 1, 2 and 4 (d) 1, 3, 4 and 2</p> <p>26. Arrange the following sectors in the increasing order of their methane emission?</p> <p>1. Agricultural byproducts 2. Land use and biomass burning 3. Fossil fuel retrieval 4. Power stations</p> <p>(a) 4, 2, 1 and 3 (b) 2, 4, 3 and 1 (c) 4, 3, 2 and 1 (d) 4, 2, 3 and 1</p> <p>27. Arrange the following sectors in the increasing order of their nitrous oxide emission?</p> <p>1. Agricultural byproducts 2. Industrial process 3. Land use and biomass burning 4. Power stations</p> <p>(a) 4, 2, 1 and 3 (b) 4, 3, 2 and 1 (c) 2, 4, 3 and 1 (d) 4, 2, 3 and 1</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>28. Which of the following are the important climatic factors determining the distribution of terrestrial biomes?</p> <ol style="list-style-type: none">1. Latitude2. Humidity3. Elevation <p>(a) 1 only (b) 2 only (c) 1 and 2 (d) 1, 2 and 3</p> <p>29. In the long run, the climatic change could affect agriculture in which of the following ways?</p> <ol style="list-style-type: none">1. productivity2. agricultural practices3. environmental effects4. rural space5. adaptation <p>(a) 1, 2 and 4 (b) 1, 3 and 5 (c) 1, 2, 3 and 4 (d) 1, 2, 3, 4 and 5</p> <p>30. Which of the following statements are correct about the effect of elevated carbon dioxide on crops?</p> <ol style="list-style-type: none">1. Rising CO₂ concentration in the atmosphere will have positive consequences2. Carbon dioxide is essential to plant growth <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>31. Which of the following agricultural activity leads to the release of methane?</p> <ol style="list-style-type: none">1. Deforestation2. Rice cultivation3. Enteric fermentation in cattle4. Fertilizer application <p>(a) 1 and 2 (b) 1 and 3 (c) 3 and 4 (d) 2 and 3</p>	<p>32. Which of the following statements are correct about Ecology?</p> <ol style="list-style-type: none">1. Ecology is a sub-discipline of biology2. The word "ecology" ("oekologie") was coined in 1866 by the German scientist Ernst Haeckel <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>33. Which of the following statements are correct about the Park Grass Experiment?</p> <ol style="list-style-type: none">1. The Park Grass Experiment is a biological study originally set up to test the effect of fertilizers and manures on hay yields2. The longest experiment in existence is the Park Grass Experiment that was initiated in 1856 <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>34. Which of the following Indian Emission Standards (4-Wheel Vehicles) are applicable nationwide?</p> <ol style="list-style-type: none">1. India 20002. Bharat Stage II3. Bharat Stage III4. Bharat Stage IV <p>(a) 1 and 2 (b) 2 and 3 (c) 1, 2 and 3 (d) 1, 2, 3 and 4</p> <p>35. The Indian Emission Standard Bharat Stage IV is equivalent to</p> <p>(a) Euro 2 (b) Euro 3 (c) Euro 4 (d) Euro 5</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>36. The Trucks and Buses in India follow which of the following emission standard?</p> <p>(a) Euro 1 (b) Euro 2 (c) Euro 3 (d) Euro 4</p> <p>37. The Light duty diesel vehicles in India follow which of the following emission standard?</p> <p>(a) Euro 1 (b) Euro 2 (c) Euro 3 (d) Euro 4</p> <p>38. The New Agriculture Movement (Nayakrishi) is an agricultural movement in</p> <p>(a) India (b) Bangladesh (c) Nepal (d) Pakistan</p> <p>39. A process by which biodiversity loss can be reduced by creating a framework which allows biodiversity to be reliably measured and market based solutions applied to improving biodiversity is known as</p> <p>(a) Biodiversity banking (b) Biodiversity trading (c) Biodiversity offsets (d) All of the above</p> <p>40. Feed-in tariff is related to</p> <p>(a) Improving grid efficiency (b) Adoption of renewable energy sources (c) Differential tariffs as per usage (d) Reduction on fossil fuels</p> <p>41. Which of the following statements are correct about the Flexible Mechanisms?</p> <p>1. It refers to Emissions Trading, the Clean Development Mechanism and Joint Implementation 2. These are mechanisms defined under the Kyoto Protocol intended to lower the overall costs of achieving its emissions target</p>	<p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>42. Which of the following are the key features of the Clean Development Mechanism under Kyoto protocol?</p> <p>1. It provides a mechanism through which Annex I countries can meet their domestic emission reduction targets by buying greenhouse gas reduction units from (projects in) non Annex I countries 2. This helps Non-Annex I countries also to meet their GHG emission targets</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>43. Which of the following statements are correct about the Genetically modified foods?</p> <p>1. Genetically modified foods (or GM foods) are foods derived from genetically modified organisms 2. It is same as mutagenesis (mutation breeding) where an organism is exposed to radiation or chemicals to create a non-specific but stable change</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>44. Through which of the following techniques humans can modify food organisms?</p> <p>1. selective breeding 2. plant breeding 3. animal breeding 4. somaclonal variation</p> <p>(a) 1 and 2 (b) 2 and 4 (c) 1, 2 and 3 (d) 1, 2, 3 and 4</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>45. Genetic modification involves</p> <p>1. insertion of genes 2. deletion of genes</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p> <p>46. A set of biotic and abiotic conditions in which a species is able to persist and maintain stable population sizes is known as</p> <p>(a) Habitat (b) Niche (c) Population ecology (d) Deme</p> <p>47. A set of spatially disjunct populations, among which there is some immigration is known as</p> <p>(a) Local population (b) Subpopulation (c) Metapopulation (d) Population</p> <p>48. A group of individuals more genetically similar to each other than to other individuals, usually with some degree of spatial isolation as well is known as</p> <p>(a) Species population (b) Subpopulation (c) Metapopulation (d) Deme</p> <p>49. A spatially clustered group of individuals is known as</p> <p>(a) Aggregation (b) Deme (c) Local population (d) Subpopulation</p> <p>50. Predators that feed on a mix of herbivores and predators are known as</p> <p>(a) Primary consumers (b) Secondary consumers</p>	<p>(c) Tertiary consumers (d) Detritivores</p> <p>51. Which of the following is not a feature of Keystone species?</p> <p>(a) Disproportionate connection to more species in the food-web (b) Higher levels of biomass in the trophic pyramid relative to the importance of their role (c) It maintains the organization and structure of entire communities (d) Can cause the extinction of other species in the community</p> <p>52. Which of the following crop has seen rise in Genetically modified variety in India?</p> <p>(a) Brinjal (b) Soybean (c) Rice (d) Cotton</p> <p>53. Which of the following species of rhinoceros is said to be the most critically endangered species?</p> <p>(a) Indian one-horned rhinos (b) African black rhino (c) Sumatran rhino (d) Javan rhino</p> <p>54. Which of the following is the largest mangrove forest in the world?</p> <p>(a) Muisue Forests in Eucador (b) The Mekong Delta in Vietnam (c) The mangrove forests of Kompong Sammaki in Cambodia (d) The Sunderbans in West Bengal</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>55. Which of the following kinds of deserts are found in India?</p> <p>1. Sand desert 2. White salt desert 3. Cold desert</p> <p>(a) 1 only (b) 1 and 2 (c) 1 and 3 (d) 1, 2 and 3</p> <p>56. In India tropical evergreen forests are found in the</p> <p>1. Western slopes of the Western Ghats 2. Eastern slopes of the Western Ghats 3. Hills of Jaintia and Khasi</p> <p>(a) 1 only (b) 1 and 2 (c) 1 and 3 (d) 1, 2 and 3</p> <p>57. What percentage of the named species on Earth are classified as plants</p> <p>(a) 5% (b) 15% (c) 20% (d) 25%</p> <p>58. What is the waste product of photosynthesis</p> <p>(a) Carbon dioxide (b) Nitrogen (c) Oxygen (d) Water</p> <p>59. What does 'biodiversity' refer to?</p> <p>(a) the diversity of species, ecosystems and cultures (b) only the diversity of species (c) cultural diversity (d) the diversity of species, ecosystems and genes</p> <p>60. How many species, excluding bacteria, do scientists estimate exist on earth</p> <p>(a) 1-2 million</p>	<p>(b) 4-6 million (c) 8-9 million (d) 12-14 million</p> <p>61. Which group of living things includes the greatest number of different species?</p> <p>(a) Birds (b) Fish (c) Insects (d) Mammal</p> <p>62. Different species have adopted many tricks and strategies to avoid being eaten by their enemies. Most predators don't eat wasps, which have yellow and black stripes. The wasp is protecting itself by</p> <p>(a) Camouflage (b) Mimicry (c) Warning colours (d) None of the above</p> <p>63. How many Megadiverse countries have been identified by Conservation International?</p> <p>(a) 2 (b) 12 (c) 15 (d) 17</p> <p>64. How many new species are found every year?</p> <p>(a) 1000 (b) 5000 (c) 15000 (d) 100000</p> <p>65. How many species of plants, animals and insects are being lost every day?</p> <p>(a) 1 (b) 50 (c) 137 (d) 1000</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>66. The Cretaceous - Tertiary extinction event is referring to the extinction of which race?</p> <p>(a) Woolly Mamoths</p> <p>(b) Saber Tooth Tigers</p> <p>(c) Tasmianian Tiger</p> <p>(d) Dinosaurs</p> <p>67. Which country supports almost 10% of biodiversity on the earth?</p> <p>(a) New Zealand</p> <p>(b) USA</p> <p>(c) Great Britain</p> <p>(d) Australia</p> <p>68. Which is the most biodiverse country in the world?</p> <p>(a) Mexico</p> <p>(b) Brazil</p> <p>(c) Australia</p> <p>(d) USA</p> <p>69. For every pound of humans on Earth, there are _____ pounds of insects.</p> <p>(a) 30 pounds</p> <p>(b) 300 pounds</p> <p>(c) 500 pounds</p> <p>(d) 1000 pounds</p> <p>70. How do butterflies determine which plant to lay their eggs on?</p> <p>(a) They taste the plant</p> <p>(b) They smell pollen</p> <p>(c) They remember the plant they were hatched on</p> <p>(d) They choose their favorite colors of flowers</p> <p>71. Which of the following can live for weeks without their head?</p> <p>(a) Lizard</p> <p>(b) Owl</p> <p>(c) Wasp</p> <p>(d) Cockroach</p>	<p>72. What is entomophagy?</p> <p>(a) the eating of insects</p> <p>(b) the study of insects</p> <p>(c) a disease spread by fleas</p> <p>(d) the co-mingling of insect species</p> <p>73. Most birds avoid eating monarch butterflies because of</p> <p>(a) sharp barbs that hurt the bird's internal organs</p> <p>(b) bad taste; monarchs carry poison in their bodies</p> <p>(c) the diseases monarchs carry</p> <p>(d) All of the above</p> <p>74. Why should we be indebted to the tiny midges of the rainforest?</p> <p>(a) They consume waste on the jungle floor</p> <p>(b) Their bodies are crushed to make paper</p> <p>(c) They pollinate the flowers of the cacao plant</p> <p>(d) They are used to make perfume</p> <p>75. What product is made from the resinous secretions of <i>Lacifer lacca</i>?</p> <p>(a) shellac</p> <p>(b) gelatin</p> <p>(c) glue</p> <p>(d) rubber</p> <p>76. These insects are the oldest pollinators</p> <p>(a) Wasps</p> <p>(b) Hummingbirds</p> <p>(c) Moths</p> <p>(d) Beetles</p> <p>77. Colony Collapse Disorder in beehives is caused by</p> <p>(a) viruses or bacteria</p> <p>(b) pesticides</p> <p>(c) parasites</p> <p>(d) all of these</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>78. This disease is passed to humans through the bite of the tsetse fly</p> <p>(a) ebola (b) malaria (c) human African Trypanosomiasis (d) yellow fever</p> <p>79. Which of the following is the main threat to biodiversity?</p> <p>(a) Introductions of Invasive Alien Species (b) Deforestation (c) Over-exploitation of natural resources (d) Pollution and diseases</p> <p>80. Biodiversity contributes to climate change mitigation by</p> <p>(a) Releasing Oxygen (b) Releasing Carbon di oxide (c) Storing carbon dioxide (d) Storing oxygen</p> <p>81. Which of the following statements are correct about biodiversity hotspots</p> <p>1. Biodiversity hotspots are a method to identify those regions of the world where attention is needed to address biodiversity loss and to guide investments in conservation 2. It was first developed by Norman Myers 3. Currently, 34 biodiversity hotspots have been identified 4. Most of them occur in tropical forests</p> <p>(a) 1 only (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4</p> <p>82. Which of the following is not India's biodiversity hotspot?</p> <p>(a) Eastern Ghats (b) Western Ghats (c) Himalayas (d) Indo-Burma region</p>	<p>83. Wildlife Protection Act was enacted in India in</p> <p>(a) 1970 (b) 1971 (c) 1972 (d) 1973</p> <p>84. Which key person in the promotion of sustainable development and biodiversity issued the following quotation: "the library of life is burning and we don't even know the titles of the books"?</p> <p>(a) Jacques Chirac (b) Gro Harlem Brundtland (c) Fredrik Reinfeldt (d) Al Gore</p> <p>85. The Convention on Biological Diversity (CBD) was born in</p> <p>(a) 1972 (b) 1982 (c) 1992 (d) 1998</p> <p>86. Which of the following statements are correct about Biodiversity and climate change?</p> <p>1. Biodiversity and climate change are very closely related issues 2. Climate change is strongly affected by biodiversity</p> <p>(a) Only 1 is correct (b) Only 2 is correct (c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>87. Which of the following services are provided by Coral reefs?</p> <p>1. Food 2. Storm protection 3. Jobs 4. Recreation</p> <p>(a) 2 only (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

<p>88. Which of the following statements are correct about the Biodiversity in India?</p> <ol style="list-style-type: none">1. India is home to an exceptionally high level of biodiversity, and to nearly one-fifth of the world's human population2. India is one of the 17 megadiverse countries3. It is a matter of pride that India also has three of 34 "global biodiversity hotspots" <p>(a) 1 only (b) 1 and 2 (c) 1 and 3 (d) 1, 2 and 3</p> <p>89. 5 countries vs. 130 refers to</p> <p>(a) Kyoto protocol (b) GM crops (c) Biosafety Protocol (d) WTO</p> <p>90. The Cartagena Protocol on Biosafety mainly relates to</p> <p>(a) Development of genetically modified food (b) Consumption of genetically modified food (c) Regulate the international trade, handling and use of any genetically engineered organism (d) All of the above</p> <p>91. Which of the following are the natural carbon sinks?</p> <ol style="list-style-type: none">1. oceans2. terrestrial plants3. Landfills <p>(a) 1 only (b) 2 only (c) 1 and 2 (d) 1, 2 and 3</p> <p>92. Which of the following statements are correct about the role of soils in carbon storage?</p> <ol style="list-style-type: none">1. Soils represent a short to long-term carbon storage medium2. Soils contain very less carbon than the terrestrial vegetation <p>(a) Only 1 is correct (b) Only 2 is correct</p>	<p>(c) Both 1 and 2 are correct (d) Neither 1 nor 2 is correct</p> <p>93. Which of the following represent the largest active carbon sink on Earth?</p> <p>(a) Forests (b) Oceans (c) Landfills (d) Soil</p> <p>94. Biosequestration refers to</p> <p>(a) capture of the carbon dioxide by biological processes (b) storage of the carbon dioxide by biological processes (c) capture and storage of the carbon dioxide by biological processes (d) release of the carbon dioxide by biological processes</p> <p>95. Which of the following are the objectives of the Ocean fertilization?</p> <ol style="list-style-type: none">1. to increase marine food production2. to remove carbon dioxide from the atmosphere <p>(a) Only 1 (b) Only 2 (c) Both 1 and 2 (d) Neither 1 nor 2</p> <p>96. Albedo is</p> <p>(a) the ratio of absorbed radiation from the surface to incident radiation upon it (b) the total sunlight reflected from a surface (c) the ratio of reflected radiation from the surface to incident radiation upon it (d) the total sunlight absorbed by a surface</p>
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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

97. Which of the following statements are correct about Negative carbon dioxide emission?

1. It is the result of carbon dioxide removal technologies, such as bio-energy with carbon capture and storage, biochar, direct air capture or enhanced weathering

2. Negative emissions is same as reducing emissions

(a) Only 1 is correct

(b) Only 2 is correct

(c) Both 1 and 2 are correct

(d) Neither 1 nor 2 is correct

98. Which of the following are temperate grassland or shrubland biome?

1. steppe

2. pampas

3. prairie

4. savanna

5. veld

(a) 1 and 2

(b) 1, 2 and 4

(c) 2, 4 and 5

(d) 1, 2 and 3

99. Which of these objects is NOT found in the biosphere of the Earth?

(a) Bald Eagle

(b) Great White Shark

(c) Amazon Rain Forest

(d) Core of the Earth

100. Where do you get the nitrogen your body needs?

(a) Breathing the air

(b) Eating plants and animals

(c) Bacteria on your skin

(d) All of the Above

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Model Test Paper 5 (Environmental Ecology)

General Study Paper I

Answer Sheet

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	21	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	61	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	81	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	22	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	42	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	62	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	82	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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