



# Question Paper - Report

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Question Paper

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## MANIPAL ACADEMY OF HIGHER EDUCATION

II SEMESTER MIDTERM EXAMINATION MARCH 2025

**ENVIRONMENTAL STUDIES [CIE 1072-CHM]**

**Marks: 30**

**Duration: 90 mins.**

**MCQ**

**Answer all the questions.**

Section Duration: 20 mins

- 1) Which of the following scenario shows Greenhouse effect is under control.

<u>Declining pH of the Ocean water</u>	<u>Increase in the absorption of carbondioxide in the upper layer of Ocean compared to terrestrial environment</u>	<u>Overall number of record low temperature events increasing</u>	<u>None of the above</u>	(0.5)
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- 2) Which of the following statement is incorrect

<u>US follows the WHO guidelines which says that up to 10 ug/m3 is safe, after which it is can be detrimental</u>	<u>The NAAQS limit is 4 times above WHO limits</u>	<u>In 2015 WHO reported that India had 13 most polluted cities out of 20</u>	<u>None of the above</u>	(0.5)
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- 3) The essence of the issue of 'tragedy of the commons' is that:

<u>Exploiting the resources will help in sharing the resources.</u>	<u>Intervention by private party will manage the resources effectively.</u>	<u>One's self interest is the best for all.</u>	<u>Managing the commons is most feasible by the local community.</u>	(0.5)
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- 4) Which of the following is a wrong statement (0.5)

<u>Resource consumption</u>	<u>Sustainable growth of a</u>	<u>Focussing on GDP can</u>	<u>Environmental Kuznets curve</u>
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must increase    country is    reduce    is not applicable  
for                necessary        environmental    to whole world  
development to  
happen            equivalent to  
environmental  
sustainability

5) Which of the following statement is false

<u>Developed</u> <u>nation always</u> <u>have lower</u> <u>carbon footprint</u>	<u>Environmental</u> <u>sustainability requires</u> <u>that we don't consume</u> <u>non-renewable</u> <u>resources</u>	<u>India is one</u> <u>of the</u> <u>largest</u> <u>carbon</u> <u>emitter</u>	<u>GDP is a</u> <u>measure of how</u> <u>natural</u> <u>resources are</u> <u>consumed</u>	(0.5)
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6) Plastic recycling is difficult to achieve when

<u>Majority of the</u> <u>plastic is</u> <u>thermoplastic in</u> <u>nature</u>	<u>Plastics are made of</u> <u>High density</u> <u>Polyethylene</u>	<u>They are of</u> <u>macroplastic</u> <u>range</u>	<u>None of</u> <u>the</u> <u>above</u>	(0.5)
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7) Which of the following information about plastic waste is incorrect

<u>Plastics are</u> <u>potential</u> <u>vector of</u> <u>chemical</u> <u>pollutants</u>	<u>They can</u> <u>undergo</u> <u>biodegradation</u>	<u>They can result in</u> <u>Bioaccumulation</u> <u>and affect the higher</u> <u>trophic level</u>	<u>Macroplastics</u> <u>quickly degrade on</u> <u>surface water and</u> <u>cannot be seen in</u> <u>offshore waters</u>	(0.5)
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8) Which of the following is hindering the sustainable exploration of mineral resources in Indian scenario

<u>Poor implementation of</u> <u>environment and</u> <u>community rights</u>	<u>Post closure of</u> <u>mines after</u> <u>exploration</u>	<u>High tax paid to</u> <u>government in return</u> <u>to the right to use</u>	<u>All the</u> <u>above</u>	(0.5)
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9) Which of the following statement is false

<u>Formation of</u> <u>soil takes</u> <u>thousand years</u> <u>of complex</u> <u>process</u>	<u>Organic matter</u> <u>form majority of</u> <u>the soil</u> <u>composition</u>	<u>There is a zone of</u> <u>clay accumulation</u> <u>above the parent</u> <u>rock material</u>	<u>Soil has</u> <u>chemically and</u> <u>texturally</u> <u>different layers</u> <u>of soil horizon</u>	(0.5)
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10) Which of the following is not a role of forest resources

<u>Balancing earth</u> <u>CO<sub>2</sub> supply and</u> <u>exchange</u>	<u>Energy production</u> <u>through</u> <u>regeneration</u>	<u>Important source of</u> <u>medicinal</u> <u>ingredients</u>	<u>None of</u> <u>the</u> <u>above</u>	(0.5)
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**DESCRIPTIVE****Answer all the questions.**

- 11) With the help of a flow chart describe the process of plastic waste management technology and the application of recycled plastic specific to Road construction. (4)
- 12) Discuss how forest support the four pillars of food security (3)
- 13) Briefly explain the factors influencing soil formation. (3)
- 14) Explain the three major breakthroughs identified through analysing variations in concentration of atmospheric carbon dioxide in the Northern hemisphere. (3)
- 15) Discuss how poor urban planning has lead to the recurring floods in the city of Chennai (3)
- 16) Differentiate between primary and secondary microplastics. (3)
- 17) Topography of chennai has significant influence in the ciity's resiliency towards natural disasters. Comment (2)
- 18) List the actions taken to curb the ill effects of green revolution . (2)
- 19) Differentiate between ecological footprint and biocapacity. (2)