



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
(Deemed to be University under Section 3 of the UGC Act, 1956)

# Question Paper - Report

19-Mar-2025 23:58:49

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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.

- |   |   |  |                                   |       |
|---|---|--|-----------------------------------|-------|
| <a href="#">Declining pH of the Ocean water</a> | <a href="#">Increase in the absorption of carbondioxide in the upper layer of Ocean compared to terrestrial environment</a> | <a href="#">Overall number of record low temperature events increasing</a> | <a href="#">None of the above</a> | (0.5) |
|---|---|--|-----------------------------------|-------|

2) Which of the following statement is incorrect

- |  |   |   |                                   |       |
|--|---|---|-----------------------------------|-------|
| <a href="#">US follows the WHO guidelines which says that up to 10 ug/m3 is safe, after which it is can be detrimental</a> | <a href="#">The NAAQS limit is 4 times above WHO limits</a> | <a href="#">In 2015 WHO reported that India had 13 most polluted cities out of 20</a> | <a href="#">None of the above</a> | (0.5) |
|--|---|---|-----------------------------------|-------|

3) The essence of the issue of 'tragedy of the commons' is that:

- |  |  |  |   |       |
|--|--|--|---|-------|
| <a href="#">Exploiting the resources will help in sharing the resources.</a> | <a href="#">Intervention by private party will manage the resources effectively.</a> | <a href="#">One's self interest is the best for all.</a> | <a href="#">Managing the commons is most feasible by the local community.</a> | (0.5) |
|--|--|--|---|-------|

4) Which of the following is a wrong statement (0.5)

- |                                      |   |                                      |   |
|--------------------------------------|---|--------------------------------------|---|
| <a href="#">Resource consumption</a> | <a href="#">Sustainable growth of a</a> | <a href="#">Focussing on GDP can</a> | <a href="#">Environmental Kuznets curve</a> |
|--------------------------------------|---|--------------------------------------|---|

<a href="#"><u>must increase for development to happen</u></a>	<a href="#"><u>country is necessary equivalent to environmental sustainability</u></a>	<a href="#"><u>reduce environmental degradation</u></a>	<a href="#"><u>is not applicable to whole world</u></a>
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- 5) Which of the following statement is false

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

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

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

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

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

<a href="#"><u>Balancing earth CO<sub>2</sub> supply and exchange</u></a>	<a href="#"><u>Energy production through regeneration</u></a>	<a href="#"><u>Important source of medicinal ingredients</u></a>	<a href="#"><u>None of the above</u></a>	(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) |