



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

# 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. (0.5)
- |   |   |  |                                   |       |
|---|---|--|-----------------------------------|-------|
| <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 (0.5)
- |  |   |   |                                   |       |
|--|---|---|-----------------------------------|-------|
| <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: (0.5)
- |  |  |  |   |       |
|--|--|--|---|-------|
| <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> |
|--------------------------------------|---|--------------------------------------|---|

[must increase for development to happen](#)      [country is necessary equivalent to environmental sustainability](#)      [reduce environmental degradation](#)      [is not applicable to whole world](#)

5) Which of the following statement is false

[Developed nation always have lower carbon footprint](#)      [Environmental sustainability requires that we don't consume non-renewable resources](#)      [India is one of the largest carbon emitter](#)      [GDP is a measure of how natural resources are consumed](#) (0.5)

6) Plastic recycling is difficult to achieve when

[Majority of the plastic is thermoplastic in nature](#)      [Plastics are made of High density polyethylene](#)      [They are of macroplastic range](#)      [None of the above](#) (0.5)

7) Which of the following information about plastic waste is incorrect

[Plastics are potential vector of chemical pollutants](#)      [They can undergo biodegradation](#)      [They can result in bioaccumulation and affect the higher trophic level](#)      [Macroplastics quickly degrade on surface water and cannot be seen in offshore waters](#) (0.5)

8) Which of the following is hindering the sustainable exploration of mineral resources in Indian scenario

[Poor implementation of environment and community rights](#)      [Post closure of mines after exploration](#)      [High tax paid to government in return to the right to use](#)      [All the above](#) (0.5)

9) Which of the following statement is false

[Formation of soil takes thousand years of complex process](#)      [Organic matter form majority of the soil composition](#)      [There is a zone of clay accumulation above the parent rock material](#)      [Soil has chemically and texturally different layers of soil horizon](#) (0.5)

10) Which of the following is not a role of forest resources

[Balancing earth CO<sub>2</sub> supply and exchange](#)      [Energy production through regeneration](#)      [Important source of medicinal ingredients](#)      [None of the above](#) (0.5)

**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)