



Question Paper

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MANIPAL ACADEMY OF HIGHER EDUCATION

B.Tech I Semester Midterm Examination September 2024

ENVIRONMENTAL STUDIES [CIE 1072]

Marks: 30

Duration: 90 mins.

MCQ

Answer all the questions.

Section Duration: 20 mins

1) Which of the following statement is true

[Temperature and carbondioxide are not linearly correlated](#)

[Earth is entering into an ice age](#)

[Total estimated quantity of Increase in the atmosphere carbondioxide is same as the amount emitted in the atmosphere by fossil fuels](#)

[None of the above](#)

(0.5)

2) Which of the following statement related to Tragedy of commons is true

[Inherent tension develops between collective and individual responsibility](#)

[It can always be resolved through privatization or government intervention](#)

[It is independent of carrying capacity of common](#)

[All the above](#)

(0.5)

3) Focussing on GDP will help in

- [Reducing Income inequality](#) [Sustainable development](#) [Environmental conservation](#) [All the above](#) (0.5)

4) The seasonal variations in the atmospheric Carbondioxide content can be observed by

- [Studying ice core data](#) [Analyzing the pollution data](#) [Studying the Keeling curve](#) [Studying the Kuznets curve](#) (0.5)

5) Which of the following process results in sinking of microplastic to the river bed?

- [Bioaccumulation](#) [Marine fouling](#) [Leaching](#) [None of the above](#) (0.5)

6) Which of the following plastic is not accepted through most of the curbside recycling programmes?

- [Polypropylene](#) [Polystyrene](#) [Polyethylene terephthalate](#) [Low density polyethylene](#) (0.5)

7) Which of the following is not a factor affecting soil formation?

- [Slope of the land](#) [Construction activities](#) [Nature of parent rock](#) [Climate](#) (0.5)

8) Which of the following statement with respect to soil profile is true

- [Minerals form the largest constituent of soil](#) [Zone of clay accumulation is least in the B horizon](#) [Laterite soils are the most fertile soil](#) [Desert soils are mostly acidic in nature](#) (0.5)

9) Choose the incorrect statement from the following

Tragedy of the commons is derivative of 'self-interest' for a common resource.	The issue of 'tragedy of the commons' can only be managed and not solved.	Keeling's curves show that the total estimated increase in the quantity of atmospheric Carbondioxide content is same as that emitted by burning fossil fuels.	None of the above.	(0.5)
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10) Which one of the following fact is incorrect?

Ozone is harmless to breathe	Global warming is the rise in the average temperature of the earth's climate system	Eutrophication is observed in water bodies	The greenhouse effect is a natural phenomenon	(0.5)
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DESCRIPTIVE

Answer all the questions.

- 11) Environmental Kuznets curve is right if you take countries in isolation but wrong when taken for the entire world. Infer with example (4)
- 12) Watershed management ensures the protection of ecosystem services. Explain (3)
- 13) Why is considering hydroelectric dam a renewable or sustainable energy resource problematic? Explain using any three points. (3)
- 14) Explain biocapacity and ecological footprint through the lens of commons. (3)

- 15) Discuss the policy and actions being taken towards managing single use plastic in India. (3)
- 16) Explain the importance of wetland conservation in urban planning with respect to the Chennai City . (3)
- 17) Forest support the four pillars of food security as specified by Food and Agriculture Organisation. Infer (2)
- 18) Mismanagement of wetlands in Chennai hampered the agriculture sector. Infer. (2)
- 19) Distinguish between primary and secondary microplastic . (2)