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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

<u>Temperature and carbondioxide are not linearly correlated</u>	<u>Earth is entering into an ice age</u>	<u>Total estimated quantity of Increase in the atmosphere carbondioxide is same as the amount emitted in the atmosphere by fossil fuels</u>	<u>None of the above</u>	(0.5)
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- 2) Which of the following statement related to Tragedy of commons is true

<u>Inherent tension develops between collective and individual responsibility</u>	<u>It can always be resolved through privatization or government intervention</u>	<u>It is independent of carrying capacity of common</u>	<u>All the above</u>	(0.5)
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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

<u>Tragedy of the commons is derivative of 'self-interest' for a common resource.</u>	<u>The issue of 'tragedy of the commons' can only be managed and not solved.</u>	<u>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.</u>	<u>None of the above.</u>	(0.5)
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10) Which one of the following fact is incorrect?

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