

Total No. of printed pages = 3

MC 181406

Roll No. of candidate

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2021

B.Tech. 4th Semester End-Term Examination

ENVIRONMENTAL SCIENCE

(New Regulation and New Syllabus)

Full Marks – 50

Time – Two and Half hours

The figures in the margin indicate full marks for the questions.

Answer Question No. 1 and any *four* from the rest.

1. Answer the following :

(10 × 1 = 10)

(i) The complex network of inter connected food chain is known as

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|----------------------|------------------------|
| (a) Ecological Chain | (b) Trophic level |
| (c) Food Web | (d) Ecological Pyramid |

(ii) One of an examples of one way ecological cycle is

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|------------------|--------------------------|
| (a) Water cycle | (b) Carbon dioxide cycle |
| (c) Energy cycle | (d) Oxygen cycle |

(iii) Soil profile is

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|--|
| (a) A front view of the horizons in a soil |
| (b) A cross sectional view of the horizons in a soil |
| (c) A cross sectional view of the horizons in rocks |
| (d) A front view of the horizons in rocks |

(iv) The land can use for farming is also known as

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|----------------------|--------------------|
| (a) Reclaimable land | (b) Catchment area |
| (c) Derelict land | (d) Arable land |

[Turn over

- (v) Application of small doses of chlorine to treated water is known as
- | | |
|------------------|-------------------|
| (a) Coagulation | (b) Filtration |
| (c) Chlorination | (d) Sedimentation |
- (vi) The concentration of dissolved oxygen in hot water is _____ as compared to normal water.
- | | |
|----------|-----------|
| (a) High | (b) Equal |
| (c) Low | (d) Same |
- (vii) Ozone found in
- | | |
|----------------|------------------|
| (a) Ionosphere | (b) Stratosphere |
| (c) Exosphere | (d) Mesosphere |
- (viii) The major source of carbon monoxide is
- | | |
|--------------------------|--------------------|
| (a) Industrial processes | (b) Motor vehicles |
| (c) Forest fire | (d) Coal mining |
- (ix) Sounds that is coming from vehicles, machines, aircrafts etc are called
- | | |
|-----------------------|----------------------|
| (a) Natural sounds | (b) Noise |
| (c) Artificial sounds | (d) Unhealthy sounds |
- (x) Soft materials and carpets are used in a cinema hall to
- | | |
|--------------------------|-------------------------|
| (a) Reflect sound waves | (b) Refract sound waves |
| (c) Increase sound waves | (d) Absorb sound waves |
2. (a) What are the biochemical cycles? How does oxygen cycle occur in nature? (6)
 - (b) Differentiate between 'autecology' and 'synecology'. (4)
 3. (a) What is soil pollution? How can land degradation be prevented? (1 + 5 = 6)
 - (b) Define wetlands and its classification. (4)
 4. (a) What are major water pollutants and what effect they have on water quality. (5)
 - (b) List five ways to reduce surface and ground water pollution. (5)
 5. (a) Define Cyclone Separators. (5)
 - (b) Discuss the source correction methods for controlling air pollution. (5)

6. (a) Define noise pollution. (2)
(b) What measures can be taken for the suppression of noise at source? (8)
7. Write short notes on (any *two*) : (2 × 5 = 10)
(a) Acid rain and its example
(b) Discuss about the photochemical smog
(c) Food web
(d) Water pollution
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