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SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : DECEMBER-2025/JANUARY-2026
SEMESTER – IV

Sub: Environmental Studies (BCA-445-20, BCA-CS-445-20)

Date : 02/01/2026

Total Marks : 60

Time: 2.00 pm to 4.30 pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labeled diagrams wherever necessary.

Q.1. Fill in the blanks.

(5)

1. ----- is an example of in-situ conservation.
 - a) Seed bank
 - b) Gene bank
 - c) Wild life sanctuary
 - d) None of these
2. Ozone in stratosphere absorbs harmful ----- rays.
 - a) gamma
 - b) UV
 - c) X
 - d) infra red
3. Gobar gas is formed by -----.
 - a) Cyanobacteria
 - b) Methanogenic bacteria
 - c) Purple Sulfur bacteria
 - d) Thermocidophiles
4. ----- is main contributor of air pollution.
 - a) Carbon monoxide
 - b) Carbon dioxide
 - c) Sulfur dioxide
 - d) Hydrogen sulphide
5. Primary consumers forms ----- trophic level of food chain.
 - a) first
 - b) second
 - c) third
 - d) topmost

Q.2. State True/False.

(5)

1. Bhopal gas tragedy was natural disaster.
2. 5th June is celebrated as world environment day.
3. Energy flow in an ecosystem is always multidirectional.
4. Population density is high in an industrial area.
5. Interlinked food chains forms food web.

Q.3. Answer the following. (Solve any 5)

(10)

1. Enlist effects of deforestation.
2. Give formula for population growth.
3. Enlist conventional sources of energy.
4. Define Biodiversity.
5. Enlist diseases transmitted by polluted water.
6. Draw diagram of grassland ecosystem.

Q. 4. Answer the following in detail. (Solve any 6)

(30)

1. Explain measures of soil conservation.
2. Describe role of decomposers in nature.
3. What are effects of air pollution on human health?
4. Explain nonconventional energy sources with examples.
5. Explain pond ecosystem.
6. Enlist flood control measures.
7. What are causes of acid rain?

Q. 5. Answer the following in detail. (Solve any 1)

(10)

1. Explain multidisciplinary nature of Environmental Science.
 2. Explain causes of loss of biodiversity. Add a note on its conservation.
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