

U.G. 5th Semester Examination - 2020**ENVIRONMENTAL SCIENCE****Course Code : BENVCCHT501****Course Title: Environmental Pollution**

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **ten** questions of the following:

1×10=10

- a) What is benzo (α) pyrene?
- b) Give main source of 1,4-Dioxane as heterocyclic organic compound.
- c) What is 'oxidizing smog'?
- d) Name of the secondary pollutants.
- e) Give relation equation of Ghyben–Herzberg.
- f) Why is lake liming a temporary solution?
- g) What is the cause of Lake Acidification?
- h) Main source of SO_x in atmosphere.

- i) Which compound is the main cause of lead pollution in automobile emissions?
- j) Main cause of "algal bloom".
- k) What is Minamata Bay?
- l) What is Plastic debris?
- m) Which is the best example of a mineral dissolution reaction?
- n) Name two indoor air pollutants.
- o) Main effect on 'Oil spills' in environment.

2. Answer any **five** of the following questions:

2×5=10

- a) What is eutrophication index?
- b) What are the types of marine pollution?
- c) Give two effect on wetlands pollution in environment.
- d) Main cause of Lake Acidification.
- e) What is HAPs? Give one example.
- f) What is acidic soil?
- g) Why is BOD important in wastewater treatment?
- h) Define Fireworks Pollution.

3. Answer any **two** of the following questions:

$$5 \times 2 = 10$$

- a) Calculate the 5-day BOD of a domestic wastewater based on the following data: volume of waste water added to 300 ml bottle=6.0ml, initial DO=8.1 mg/L, 5-Day DO=4.2 mg/L. What is the ultimate BOD assuming a rate of 0.1 per day?
- b) Explain how anthropogenic chlorofluorocarbons (CFCs) destroy stratospheric O₃.
- c) Write down about *El Nino* phenomenon.

4. Answer any **one** of the following questions:

$$10 \times 1 = 10$$

- a) Write a short note on global climate change due to environment pollution.
 - b) What are the main cause the global climate change? Give proper justification.
 - c) Give an overview of the relationship between pollution, poverty and population.
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