Reg. No. :

Question Paper Code: 98966

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

One credit course

Chemical Engineering

19UCH866- POLLUTION CONTROL ENGINEERING

(Régulations 2019)

Duration: 1.30 hours   Maximum: 50 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Who was the first scientist to coin the term SMOG and to describe the layers of SMOG?   CO1- U
   (a) Nikola Tesla   (b) Stephen Hawking

   (c) Dr Henry Antoine   (d) Nicolaus Copernicus

2. Which of the following is called the secondary air pollutant?   CO1- U

   (a) PANs   (b) Ozone   (c) Carbon monoxide   (d) Nitrogen Dioxide

3. DDT and Aluminium cans are examples of _____.   CO2- U

   (a) Primary Pollutants   (b) Secondary pollutants

   (c) Biodegradable Pollutants   (d) Non-Biodegradable Pollutants

4. Smoke, fumes, ash, dust, nitric oxide and sulphur dioxide are the main sources of _____.   CO2- U

   (a) Primary Pollutants   (b) Secondary pollutants

   (c) Bio-Degradable Pollutants   (d) None of the above

5. What is the impact of air pollution on plants?   CO2- U

   (a) Infection in the lungs   (b) Irritation in eyes

   (c) Reduce growth and yield of crops   (d) Deafening of ears

PART – B (5 x 3= 15 Marks)

6. What is the major cause of air pollution?   CO1- U

7. How air pollution causes global warming?   CO1- U

8. What is acid rain? Name the gases responsible for acid rain   CO1- U

9.   What are the key features of air act?   CO2- U

10. Define secondary pollutants.   CO2- U

PART – C (2 x 10= 20 Marks)

11. (a) Describe in detail about the causes and effects of air pollution.   CO1- U   (10)

Or

(b) What is energy conversion? List the use of clean energy resources.   CO1- U   (10)

12. (a) Explain the role of government and industries in pollution   CO2- U   (10)
          prevention.

Or

(b) Elaborate the concept of common effluent treatment.   CO2- U   (10)

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