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Question Paper Code: 98966

B.E./B.Tech. DEGREE EXAMINATION, MAY 2024

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)

- 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
- Which of the following is called the secondary air pollutant? CO1- U
(a) PANs (b) Ozone (c) Carbon monoxide (d) Nitrogen Dioxide
- DDT and Aluminium cans are examples of _____. CO2- U
(a) Primary Pollutants (b) Secondary pollutants
(c) Biodegradable Pollutants (d) Non-Biodegradable Pollutants
- 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
- 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)

- What is the major cause of air pollution? CO1- U
- How air pollution causes global warming? CO1- U
- 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 prevention. CO2- U (10)
- Or
- (b) Elaborate the concept of common effluent treatment. CO2- U (10)