

- Q.27 Differentiate between primary and secondary treatment methods of water.
- Q.28 Explain the process of desulphurization of fuel oil.
- Q.29 Define water pollution and explain and explains its types.
- Q.30 Write a short note on Land filling and Dumping.
- Q.31 Discuss about the type of sampling of water pollution.
- Q.32 Write in detail about thermal precipitation.
- Q.33 Give a brief idea of maintenance of air pollution equipments.
- Q.34 Explain the effect of air pollution on human health.
- Q.35 Write about the health hazards of solid waste pollution.

#### Section-D

**Note:** Long answer questions. Attempt any two question out of three Questions. (10x2=20)

- Q.36 Discuss in detail about spray Tower with the help of neat diagram.
- Q.37 Draw the neat diagram of electrostatic precipitator and explain its working.
- Q.38 Write in brief about
- Centrifugal separator
  - Sedimentation

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Roll No.....

**Sem. 6, Branch : Chem, P & P Found & Forg.**  
**Sub : Pollution Ctl. In Chemical Process Ind.**  
**/Env. Engg. & Safety**

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple Choice Questions. All Questions are compulsory. (10x1=10)

- Q.1 The upper layer of atmosphere is called the
- Stratosphere
  - Troposphere
  - Ionosphere
  - None of these
- Q.2 Main pollutant present in automobile exhaust is
- CO
  - CO<sub>2</sub>
  - NO
  - Hydrocarbons
- Q.3 Which of the following is most widely used disinfectant in water treatment?
- Coagulation
  - Cation exchanger
  - Chlorine
  - Ultraviolet light
- Q.4 The maximum CO<sub>2</sub> is emitted into the atmosphere by
- Combustion
  - Urea
  - Biomass burning
  - Trees
- Q.5 Most commonly used coagulants for water treatment is

- a) Lime                      b) Bleaching powder  
c) Alum                      d) Chlorine
- Q.6 Which of the following sources is responsible for maximum air pollution?  
a) Industrial Chimney exhaust  
b) Forest fire  
c) Automobile exhaust  
d) None of these
- Q.7 Greenhouse effect refers to increase in  
a) Greenery  
b) Atmospheric pressure  
c) Atmospheric temperature  
d) Carbon monoxide
- Q.8 Fresh sewage is \_\_\_\_ in nature  
a) Acidic                      b) Neutral  
c) Alkaline                      d) Highly acidic
- Q.9 What is groundwater?  
a) Water that is spilled on to the ground  
b) Water beneath the ground surface  
c) The bottom part of the lake  
d) Rainwater that lands on to the ground
- Q.10 Dumping of water is a process of  
a) Air pollution              b) Solid waste pollution  
c) Water pollution          d) Noise pollution

### Section-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define pollution  
Q.12 Write the full form of TDS.  
Q.13 Write two sources of water pollution.  
Q.14 Write any two method of primary treatment of water pollution.  
Q.15 Define pH.  
Q.16 Explain about coagulation.  
Q.17 Expand BOD.  
Q.18 Define incineration.  
Q.19 Write any two application of fabric filters.  
Q.20 What do you mean by stack sampling.

### Section-C

**Note:** Short answer type Question. Attempt any Twelve questions out of Fifteen Questions. (12x5=60)

- Q.21 Discuss the role of activated carbon in water purification.  
Q.22 What do you mean by permanent hardness of water.  
Q.23 Discuss about absorption operation.  
Q.24 Explain the function of Venturi scrubber.  
Q.25 Discuss the utility of land filling.  
Q.26 Write the effects of air pollution on climate.