

- Q.27 Write a note on maintenance of equipment  
 Q.28 Explain the working of fabric filters.  
 Q.29 Define Dust, Fumes and Fog.  
 Q.30 Draw the flow sheet for desulphurization of fuel gases.  
 Q.31 Explain the working of ESP.  
 Q.32 Writ any five health hazards of water pollution.  
 Q.33 Explain any one method of analysis of SO<sub>2</sub> gas with the help of neat diagram.  
 Q.34 Give the construction and working of trickling filters  
 Q.35 Discuss any one of the following  
     a) Disposal of solid wastes  
     b) primary and secondary air pollutants

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)  
 Q.36 Discuss about spray towers with the help of neat diagram.  
 Q.37 Describe in detail about the advance waste water treatment method  
 Q.38 Write a short note on the following :  
     a) Compositing of solid wastes  
     b) Venturi scrubber

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**6th Sem / Chem, P & P, Found. & Forg.**  
**Subject:- Pollution Control in Chemical Process Industry / Env. Engg. & Safety**

Time : 3Hrs.                                  M.M. : 100

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 BOD means  
     a) Biochemical Oxygen Demand  
     b) Biochemical Oxygen Deficiency  
     c) Breathing Oxygen Demand  
     d) Bad Oxygen Demand  
 Q.2 Which of the following is a manmade source of air pollution  
     a) Forest fire                          b) bacteria action of soil  
     c) Automobile exhaust                d) All of the above  
 Q.3 Which of the following fine dust removal equipment is most efficient  
     a) Bag filters                            b) ESP  
     c) Scrubber                              d) Cyclone seperator  
 Q.4 The upper layer of atmosphere is called  
     a) stratosphere                        b) troposphere  
     c) ionosphere                            d) None of the above

- Q.5 The collection efficiency of ESP depends upon  
a) the electrode area  
b) the particle drift velocity  
c) the gas flow rate  
d) All of the above
- Q.6 The operation of cyclone separator relies on  
a) Diffusion of dust particles  
b) Producing an electric charge  
c) Centrifugal force acting on the particle  
d) None of the above
- Q.7 Which of the following is major constituent of air pollution  
a) Oxides of sulphur    b) Oxides of nitrogen  
c) Carbon dioxide    d) none
- Q.8 Why industries pollute water?  
a) Because they use large quantity of water  
b) Because they release all the pollutants to water  
c) Because they don't use water  
d) the water is a universal solvent
- Q.9 Which is not a water treatment method  
a) Primary                  b) Secondary  
c) Natural                  d) Advanced
- Q.10 Which of the following is the main cause of air pollution  
a) decrease in factories b) increase in sea level  
c) decrease in fertile land d) increase in factories

## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Expand ESP  
Q.12 Define ESP  
Q.13 Explain the term coagulation  
Q.14 What do you mean by incineration?  
Q.15 Write the full form of TDS  
Q.16 Define Grab Sampling  
Q.17 Explain the term "mist"  
Q.18 Write any one use of fly ash  
Q.19 What do you understand by sedimentation  
Q.20 Write two sources of water pollution

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain any four manmade sources of air pollution  
Q.22 Discuss the utility of land filling  
Q.23 Write about the effects of air pollution on plants animals  
Q.24 Explain any two primary treatment method of water pollution.  
Q.25 What do you understand by air sampling? Explain its types.  
Q.26 Discuss the method of desulphurization of fuel oil