

- 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
- Disposal of solid wastes
  - 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 :
- Compositing of solid wastes
  - Venturi scrubber

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Roll No. ....

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

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

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## 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

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