

## **Department of Mechanical Engineering** CE8005 AIR POLLUTION AND CONTROL ENGINEERING **Unit I - INTRODUCTION MCQ Bank**

	c) $NO_2$
	d) NO <sub>3</sub>
	Answer: a
3.	Which of the following is a liquid form of aerosol?
	a) Fume
	b) Dust
	c) Mist
	d) Smoke
	Answer: c
4.	X ray films are a source of which of the following gas'
	a) SO <sub>2</sub>
	b) CO <sub>2</sub>
	c) NO <sub>2</sub>
	d) $SO_3$
	Answer: c
5.	The maximum size of fly ash is
ä	a) 1µm
1	b) 100μm
(	c) 1000µm

1. Which gas is mainly produced due to incomplete burning of wood?

2. Which of the following is involved in production of carboxy haemoglobin?

a) CO b) SO<sub>2</sub> c) NO<sub>2</sub> d) NO<sub>3</sub> Answer: a.

a) CO b) SO<sub>2</sub>

d) 10μm
Answer: c
6. Which of the following leads to a disease called broncho spasm?
a) $SO_2$
b) SO <sub>3</sub>
c) SO <sub>4</sub>
d) $CO_2$
Answer: b
7. The minimum size of the smoke particle is
a) 0.2µm
b) 1μm
c) 0.8µm
d) 0.5μm
Answer: d
8. Which of the following is a secondary air pollutant?
a) SPM
b) PAN
c) $SO_2$
d) NO <sub>2</sub>
Answer: b
9. The permissible concentration of PM 10 in the air is
a) 60μg/m <sup>3</sup>
b) 40μg/m <sup>3</sup>
c) $50 \mu g/m^3$
d) 20μg/m <sup>3</sup>
Answer: a
10. Which of the following is not a part of photochemical smog?
a) $NO_2$
b) O <sub>3</sub>
c) PAN
d) SPM
Answer: d
11. Which air pollutant cause corrosion of building?
a) SO <sub>2</sub>
b) $SO_3$
c) CO
d) NO <sub>2</sub>
Answer: a

12. Which of the following air pollutant effects plants the most?
a) Fluorine
b) $SO_2$
c) PAN
d) HCl
Answer: a
13. The size of cigarette particles is
a) 1µm
b) 10μm
c) <1µm d) >10µm
Answer: c
14. Concentration of fluorine that cause a phototoxicological effect on the plant is
a) $0.1 \mu g/m^3$
b) $0.3 \mu g/m^3$
c) $0.5 \mu g/m^3$
d) $1\mu g/m^3$
Answer: b
15. Which of the following gas is not colorless?
a) NO
b) O <sub>3</sub>
c) Pb
d) $SO_3$
Answer: a
16. What is the minimum height of the chimney in a thermal power plant of capacity 350MW?
a) 100m
b) 220m
c) 380m
d) 60m
Answer: b
17. Coning plume occurs under which conditions?
a) Super adiabatic
b) Sub adiabatic
c) Neutral

d) Inversion Answer: b

<ul> <li>18. In which of the following plumes, stable condition prevails?</li> <li>a) Lofting</li> <li>b) Fanning</li> <li>c) Neutral</li> <li>d) Fumigating</li> <li>Answer: b</li> </ul>	
<ul> <li>18. The upward vertical rise prevails in which of the following plume?</li> <li>a) Trapping</li> <li>b) Fanning</li> <li>c) Looping</li> <li>d) Neutral</li> <li>Answer: d</li> </ul>	<b>^</b>
<ul> <li>19. Which of the following plume is worst for the dispersion of pollutants?</li> <li>a) Trapping</li> <li>b) Fanning</li> <li>c) Neutral</li> <li>d) Fumigating</li> <li>Answer: d</li> </ul>	
<ul> <li>20. In which of the following plumes, unstable condition prevails?</li> <li>a) Trapping</li> <li>b) Fanning</li> <li>c) Looping</li> <li>d) Neutral</li> <li>Answer: c</li> </ul>	
<ul> <li>21. Which of the following are contradictory plume?</li> <li>a) Lofting and fumigating</li> <li>b) Looping and coning</li> <li>c) Neutral and lofting</li> <li>d) Fumigating and trapping</li> </ul>	
Answer: a  22. The maximum efficiency of the electrostatic precipitator is a) 95% b) 80% c) 99%	
d) 100%	

	Answer: c
23. The	e minimum particle size removes by the gravitational chamber is
24. Wh	a) Electrostatic precipitator b) Dynamic precipitator c) Spray tower d) Wet cyclonic scrubber Answer: b
	t scrubbers are classified into types.  a) 2  b) 3  c) 5  d) 6  Answer: b
26. The	e centrifugal collectors are classified into how many types?  a) 3  b) 4  c) 5  d) 2  Answer: d
27. WI	nich of the following air pollution control device has maximum efficiency?  a) Electrostatic precipitator b) Dynamic precipitator c) Spray tower d) Wet cyclonic scrubber Answer: a