

University of Mumbai
Examination 2020 under cluster PCOE

Program: BE Chemical Engineering

Curriculum Scheme: Rev 2016

Examination: Third Year: Semester VI

Course Code: CHC601 and Course Name: Environmental Engineering

Time: 1 hour

Max. Marks: 50

For the students:- All the Questions are compulsory and carry equal marks .

Q1.	Relation of BOD and COD is
Option A:	$BOD > COD$
Option B:	$BOD < COD$
Option C:	$BOD = COD$
Option D:	$BOD * COD = 1$
Q2.	Sounds which are pleasant to our ears are called
Option A:	Musical sound
Option B:	Sound $> 90dB$
Option C:	Sound $< 90dB$
Option D:	Industrial sound
Q3.	When temporary hard water is boiled, one of the substances formed is -----
Option A:	Calcium bicarbonate
Option B:	Calcium sulfate
Option C:	Hydrogen chloride
Option D:	Carbon dioxide
Q4.	Which of the following methods is worst for the solid waste problem?
Option A:	Storage
Option B:	Land filling
Option C:	Burning
Option D:	Recycling
Q5.	The Water (Prevention and Control of Pollution) Act was enacted in the year:
Option A:	1986
Option B:	1974
Option C:	1994
Option D:	1975
Q6.	Which gas is mainly produced due to incomplete burning of wood?
Option A:	Carbon monoxide
Option B:	Carbon dioxide
Option C:	Sulphur dioxide
Option D:	Nitrogen oxides
Q7.	Which of the following is not a secondary air pollutant?

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Option A:	Ozone
Option B:	Photochemical smog
Option C:	Sulphur dioxide
Option D:	Nitrogen dioxide
Q8.	Most commonly used chemical for controlling the algae is -----
Option A:	Alum
Option B:	copper sulfate
Option C:	bleaching powder
Option D:	Lime
Q9.	What is the most abundant greenhouse gas in the atmosphere?
Option A:	Ethane
Option B:	Oxygen
Option C:	Water vapor
Option D:	Carbon dioxide
Q10.	Natural O ₃ is present in
Option A:	Troposphere
Option B:	Stratosphere
Option C:	Thermosphere
Option D:	Mesosphere
Q11.	DO required for fishes is
Option A:	> 5 ppm
Option B:	< 5 ppm
Option C:	4 ppm
Option D:	100 ppm
Q12.	How many parameters are taken into consideration when measuring air quality, in India?
Option A:	4
Option B:	3
Option C:	8
Option D:	9
Q13.	Which of the following solid wastes describe the term 'Municipal Solid Waste'?
Option A:	Toxic
Option B:	Hazardous
Option C:	Non Toxic
Option D:	Non Hazardous

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Q14.	The demand of oxygen for biological waste
Option A:	Inversely proportional to amount of organic waste to be treated
Option B:	Directly proportional to amount of organic waste to be treated
Option C:	Not required oxygen
Option D:	100 ppm required
Q15.	The principal source of volatile organics (Hydrocarbons) is
Option A:	Transportation
Option B:	Industrial processes
Option C:	Stationary fuel
Option D:	Combustion Volcanoes
Q16.	As the temperature of water increases then
Option A:	Dissolved oxygen concentration increases
Option B:	No any effect on dissolved oxygen
Option C:	Dissolved oxygen concentration doubles
Option D:	Dissolved oxygen concentration decreases
Q17.	After how many days nitrogen will be oxidized to nitrite and nitrate?
Option A:	10-12
Option B:	4-5
Option C:	30
Option D:	2-3
Q18.	Which one is the physical property of water
Option A:	Biological oxygen demand
Option B:	Chemical oxygen demand
Option C:	Total organic carbon
Option D:	Total solids
Q19.	Secondary treatment of sewage removes
Option A:	Suspended organic matter
Option B:	Dissolved and colloidal organic matter
Option C:	Fats and grease
Option D:	Pathogenic (disease causing) bacteria
Q20.	----- occurs when atmospheric temperature increases with height.
Option A:	Negative lapse rate
Option B:	Super adiabatic lapse rate
Option C:	Neutral lapse rate
Option D:	Adiabatic lapse rate
Q21.	The secondary clarifiers are ----- in shape
Option A:	Circular
Option B:	Rectangular

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Option C:	Square
Option D:	Triangular
Q22.	_____ are found in agricultural wastes
Option A:	Pesticides
Option B:	Cynides
Option C:	NO _x
Option D:	SO _x
Q23.	For drinking water BOD required
Option A:	>1 ppm
Option B:	= 100 ppm
Option C:	= 10 ppm
Option D:	<1 ppm
Q24.	The upward vertical rise prevails in which of the following plume?
Option A:	Trapping
Option B:	Fanning
Option C:	Looping
Option D:	Neutral
Q25.	When environmental Lapse Rate (ELR) is equal to the Adiabatic Lapse Rate (ALR), then which of the following occurs?
Option A:	Sub adiabatic lapse rate
Option B:	Super adiabatic lapse rate
Option C:	Neutral lapse rate
Option D:	Adiabatic lapse rate