

University of Mumbai
Online Examination 2020

Program: BE Chemical Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: CHC803

Course Name: Environmental Engineering

Time: 1 hour

Max. Marks: 50

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

Q1.	Which one of the following is the apex organization in the country in the field of pollution control?
Option A:	Water Pollution Control Board
Option B:	State Pollution Control Board
Option C:	Central Pollution Control Board
Option D:	Air pollution Control Board
Ans:	
Q2.	For Biological oxygen demand how much time and temperature required
Option A:	3 days and 20 °C
Option B:	4 days and 15 °C
Option C:	5 days and 20 °C
Option D:	2 hrs and 150 °C
Ans:	
Q3.	For drinking water BOD required
Option A:	>1 ppm
Option B:	100 ppm
Option C:	1000 ppm
Option D:	<1 ppm
Ans:	
Q4.	When we can say that water is polluted as?
Option A:	Dissolved oxygen decreases
Option B:	Dissolved oxygen increases
Option C:	No any effect on dissolved oxygen
Option D:	Temperature decreases

Ans:	
Q5.	For the COD test of sewage, organic matter is oxidized by $K_2Cr_2O_7$ in the presence of
Option A:	HCl
Option B:	H_2SO_4
Option C:	HNO_3
Option D:	CH_3COOH
Ans:	
Q6.	Which of the following statements is true about the Air Quality Index?
Option A:	It indicates the colour of the air.
Option B:	It predicts ozone levels in your area.
Option C:	It determines the intensity of sound and sound pollution.
Option D:	It estimates air pollution mainly sulphur content in the air.
Ans:	
Q7.	The main industrial source of emission of hydrogen sulphide air pollutant is
Option A:	Petroleum refineries.
Option B:	Coal based thermal power plants.
Option C:	Pulp and paper plant.
Option D:	Metallurgical roasting & smelting plant.
Ans:	
Q8.	Which of the following gases vary significantly over time and place at the atmospheric boundary level?
Option A:	Carbon dioxide
Option B:	Ozone
Option C:	Water vapour
Option D:	Oxygen
Ans:	
Q9.	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
Ans:	
Q10.	Which of the following is not source correction method?
Option A:	Raw material changes
Option B:	Process changes

Option C:	Equipment modification or replacement
Option D:	Cleaning of gaseous effluents
Ans:	
Q11.	In which unit sound is measured?
Option A:	Kilometer
Option B:	Pascal
Option C:	Kilogram
Option D:	Decibel
Ans:	
Q12.	How are many forms of nitrogen present in wastewater?
Option A:	1
Option B:	2
Option C:	3
Option D:	4
Ans:	
Q13.	Suspended solids are measured by which of the following?
Option A:	Gravimetric method
Option B:	Filtration method
Option C:	Qualitative analysis
Option D:	Flocculation method
Ans:	
Q14.	_____ are found in agricultural wastes
Option A:	Pesticides
Option B:	Cynides
Option C:	NOx
Option D:	Sox
Ans:	
Q15.	Which of the following statements is incorrect for plastic wastes?
Option A:	It is used to make compost
Option B:	It lasts for a longer period of time
Option C:	Toxic fumes are produced when burnt
Option D:	Hazardous fumes are produced when burnt
Ans:	
Q16.	Which of the following air pollution control device has maximum efficiency?
Option A:	Electrostatic precipitator
Option B:	Venturi Scrubber
Option C:	Spray tower
Option D:	Wet cyclonic scrubber
Ans:	

Q17.	The upward vertical rise prevails in which of the following plume?
Option A:	Trapping
Option B:	Fanning
Option C:	Looping
Option D:	Neutral
Ans:	
Q18.	The maximum size of fly ash is _____
Option A:	1 μ m
Option B:	100 μ m
Option C:	1000 μ m
Option D:	10 μ m
Ans:	
Q19.	Main pollutant present in automobile exhaust is
Option A:	CO
Option B:	NO
Option C:	CO ₂
Option D:	Hydrogen carbon
Ans:	
Q20.	An addition of small dose of chlorine gas to the filtered water is known as _____
Option A:	Coagulation
Option B:	Sedimentation
Option C:	Filtration
Option D:	Chlorination
Ans:	
Q21.	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
Ans:	
Q22.	Which chemical used to increase the oxidation in chemical oxygen demand?
Option A:	Sodium Hydroxide
Option B:	Potassium permanagnet
Option C:	Potassium dichromate
Option D:	Potassium hydroxide
Ans:	
Q23.	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
Ans:	
Q24.	Synthetic organic waste contains
Option A:	Synthetic organic chemicals
Option B:	Pathogens
Option C:	Oil
Option D:	Sediments
Ans:	
Q25.	Which of the following facts are incorrect?
Option A:	Global warming is the rise in the average temperature of the earth's climate system
Option B:	Eutrophication is observed in water bodies
Option C:	The greenhouse effect is a natural phenomenon
Option D:	Ozone is harmless to breathe
Ans:	

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C
Q2.	C
Q3.	D
Q4.	A
Q5.	B
Q6.	B
Q7.	B
Q8.	B
Q9.	C
Q10.	D
Q11.	D
Q12.	D
Q13.	A
Q14.	A
Q15.	A
Q16.	A
Q17.	D
Q18.	C
Q19.	A
Q20.	D
Q21.	B
Q22.	C
Q23.	D
Q24.	A
Q25.	D