

Program: BE Civil Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester VI

Course Code: CEC605 and Course Name: Environmental Engineering-1

Time: 1hour

Max. Marks: 50

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

Q1.	The process of decomposition of biodegradable solid waste by earthworms is called as
Option A:	Land fills
Option B:	Shredding
Option C:	Vermi-composting
Option D:	Composting
Q2.	Which cation base is exchanged in zeolite water softening process?
Option A:	Sodium
Option B:	Calcium
Option C:	Aluminum
Option D:	Magnesium
Q3.	Which is not the function of valves?
Option A:	Control of water system
Option B:	Start or shut down a system
Option C:	Check back-flow
Option D:	To store water
Q4.	Which gas is produced in open dumps from the decomposition of biodegradable solid waste?
Option A:	Ethane

Option B:	Methane
Option C:	Propane
Option D:	Ethane
Q5.	In orthodine test, safe residual for drinking water is indicated by
Option A:	Yellow color
Option B:	Green color
Option C:	Lemon Yellow color
Option D:	Reddish Color
Q6.	Which of the following is not a type of water closets?
Option A:	Indian-type water closet
Option B:	Spanish-type water closet
Option C:	European-type water closet
Option D:	Anglo-Indian type water closet
Q7.	Water distribution network can be analyzed by
Option A:	Stokes law
Option B:	Newton law
Option C:	Hardy-cross method
Option D:	Eulers method
Q8.	The best process of disinfection of public water supply is by
Option A:	Boiling
Option B:	Chlorination
Option C:	Adding lime
Option D:	Adding ozone
Q9.	The trap which is provided to disconnect the house drain from the street sewer is called

Option A:	Interceptor chamber
Option B:	Intercepting trap
Option C:	Interception manhole
Option D:	Interceptor chamber, manhole and trap
Q10.	Which liquid is extracted through solid waste?
Option A:	Leachate
Option B:	Sludge
Option C:	Distilled water
Option D:	Municipal waste
Q11.	What kind of reactions happen in corrosive waste?
Option A:	Physical
Option B:	Electro-chemical
Option C:	Biological
Option D:	Chemical
Q12.	Which type of pipe fitting is used in the place where four pipes meet together?
Option A:	Bend
Option B:	Cross
Option C:	Elbow
Option D:	Tees
Q13.	Settling velocity of a spherical body in a viscous fluid is given by
Option A:	Reynolds law
Option B:	Newton's law
Option C:	Stokes law
Option D:	Charles law
Q14.	What does the presence of E-Coli in water indicate?

Option A:	Water is polluted with industrial wastewater
Option B:	Water is polluted with biomedical waste
Option C:	Water is polluted with human or animal feces
Option D:	Water is wholesome
Q15.	Osmoscope is used to
Option A:	To measure odour
Option B:	To measure dissolved oxygen
Option C:	To measure total dissolved solids
Option D:	To measure total suspended solids
Q16.	What indicates the permanent hardness when alum is added to water?
Option A:	$Al(OH)_3$
Option B:	$CaSO_4$
Option C:	CO_2
Option D:	$Ca(OH)_3$
Q17.	Water sedimentation process involves the settling of the impurities in a tank under the action of
Option A:	Sun rays
Option B:	Gravitational force
Option C:	Biological action
Option D:	Flow velocity of particle
Q18.	The time period for which the water is stored in a sedimentation tank is called
Option A:	Time of flow
Option B:	Frequency of flow
Option C:	Settling time
Option D:	Detention period

Q19.	In rapid sand filters, the ratio of length to diameter should not exceed
Option A:	10
Option B:	15
Option C:	20
Option D:	25
Q20.	What is Zeolite?
Option A:	A naturally occurring salt
Option B:	Hydrated silica
Option C:	Silicon carbide
Option D:	Hydrated alumino-silicate
Q21.	What is the most efficient pH value for disinfection by chlorination?
Option A:	2
Option B:	5
Option C:	7
Option D:	10
Q22.	Which excessive nutrients in water cause Eutrophication?
Option A:	Silver and Zinc
Option B:	Cobalt and Nickel
Option C:	Sodium and Cadmium
Option D:	Phosphate and Nitrate
Q23.	Copperas is the commercial name for
Option A:	Aluminium sulphate
Option B:	Ferrous sulphate
Option C:	Ferric sulphate
Option D:	Copper sulphate

Q24.	In which method of composting, decomposition of anaerobic waste takes place?
Option A:	Bangalore method
Option B:	Depression method
Option C:	Indore method
Option D:	Trench method
Q25.	What causes the disease "Methemoglobinemia" to infants?
Option A:	Excess nitrites content in water
Option B:	Excess nitrates content in water
Option C:	Excess arsenic content in water
Option D:	Excess silver content in water

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Max. Marks:

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

Q19.	A
Q20.	A
Q21.	C
Q22.	D
Q23.	B
Q24.	A
Q25.	B