

Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: CEC604 Course Name: Environmental Engineering II

Time: 1 hour

Max. Marks: 50

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

Q1.	A sewer which receives sewage from the collection system and conducts it to a point of disposal is called as
Option A:	Common sewer
Option B:	Trunk sewer
Option C:	Branch sewer
Option D:	Outfall sewer
Q2.	Crown corrosion mainly because of
Option A:	Hydrogen sulphide
Option B:	Nitrogen content present in sewage
Option C:	Sodium chloride
Option D:	Phosphorus content present in sewage
Q3.	Which pipe system is more-cheaper?
Option A:	one pipe
Option B:	two pipe
Option C:	single stack
Option D:	partially ventilated
Q4.	Soldered joints are most commonly found on what type of pipe?
Option A:	Iron
Option B:	PVC
Option C:	Galvanized
Option D:	Copper
Q5.	The sewers should be laid at which location?
Option A:	Below the building
Option B:	Side of the building
Option C:	Within the building
Option D:	Across the building
Q6.	What is the wastewater from kitchen sinks called?
Option A:	Grey water

Option B:	Black water
Option C:	Yellow water
Option D:	Brown water
Q7.	For drainage pipe in building the test applied before putting them to use is
Option A:	water test
Option B:	smoke test
Option C:	straightness test
Option D:	leak test
Q8.	What is Grab sampling?
Option A:	Sewage sample collected at shallower depth
Option B:	Fresh collected sewage sample
Option C:	Very stale sewage sample
Option D:	Sewage sample taken from beneath the surface where impurities are fairly mixed
Q9.	What is Kjeldahl nitrogen?
Option A:	Sum of free ammonia and albuminoidal nitrogen in sewage
Option B:	Sum of free ammonia and nitrites in sewage
Option C:	Sum of free ammonia and nitrates in sewage
Option D:	Sum of nitrites and nitrates in sewage
Q10.	Which decomposition process ends with formation of methane gas?
Option A:	Aerobic decomposition
Option B:	Anaerobic decomposition
Option C:	Both Aerobic decomposition and anaerobic decomposition
Option D:	Neither Aerobic decomposition nor anaerobic decomposition
Q11.	What is the main objective of skimming tank?
Option A:	To remove oil & Grease from sewage influent
Option B:	To remove dissolved solids from sewage influent
Option C:	To remove colloidal impurities from sewage influent
Option D:	To remove grit from sewage influent
Q12.	In septic tanks, decomposition of organic bacteria, is done by
Option A:	Anaerobic bacteria
Option B:	Aerobic bacteria
Option C:	Psychophilic bacteria's
Option D:	Mesophilic bacteria's
Q13.	Soak pit media is
Option A:	Coarse aggregate
Option B:	Rubble or brick bats

Option C:	concrete blocks
Option D:	Baffle walls with membrane
Q14.	Wetland not remove effectively
Option A:	Metals
Option B:	Nitrogen
Option C:	Phosphorous
Option D:	pH
Q15.	In wetland slope provided
Option A:	5-10%
Option B:	12-15%
Option C:	10-12%
Option D:	0.5-1%
Q16.	Septic tank design for less than
Option A:	300 person
Option B:	400 person
Option C:	250 person
Option D:	500 person
Q17.	Imhoff tank design for more than
Option A:	300 person
Option B:	400 person
Option C:	250 person
Option D:	500 person
Q18.	What is the effect of increasing diameter of sewer on the self-cleaning velocity?
Option A:	to decrease it
Option B:	to increase it
Option C:	fluctuating
Option D:	Constant
Q19.	The wastewater from the city , containing a high concentration of biodegradable organics, is being steadily discharged in the flowing river at a location S . If the rate of aeration of the river water is low than the rate of degradation of organics, the dissolved oxygen for the river.
Option A:	Is lowest at location S
Option B:	Is lowest at a point upstream of the location S
Option C:	Remains constant all along the length of river
Option D:	Is lowest at a point downstream of the location S
Q20.	Which one of the following is the basic indicator of river health?
Option A:	BOD
Option B:	COD
Option C:	DO

Option D:	ThOD
Q21.	On which of the following does the self-purification process does not depend?
Option A:	Volume
Option B:	Flow rate
Option C:	Temperature
Option D:	Aquatic species
Q22.	Digested sludge is used as
Option A:	Waste
Option B:	clay
Option C:	Fertilizer
Option D:	building bricks
Q23.	Factors not affecting sludge digestion is
Option A:	Temperature
Option B:	pH
Option C:	Seeding
Option D:	atmospheric pressure
Q24.	The activities of hazardous waste management facility are
Option A:	OPA
Option B:	HAS
Option C:	TSD
Option D:	SOS
Q25.	The average composition of Municipal solid waste is:
Option A:	41% organic, 40% inert & 19% recyclable
Option B:	20% organic, 60% inert & 20% recyclable
Option C:	30% organic, 20% inert & 50% recyclable
Option D:	19% organic, 41% inert & 40% recyclable

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

Q18.	B
Q19.	D
Q20.	C
Q21.	D
Q22.	C
Q23.	D
Q24.	C
Q25.	A