

Program: BE CIVIL Engineering
Curriculum Scheme: Revised 2012
Examination: Final Year Semester VII
Course Code: CE-C704 and Course Name: EE-II

Time: 1 hour

Max. Marks: 50

=====

Q1.	What is the wastewater flow in a sewer system during the periods of dry weather with minimum infiltration called
Option A:	Wet weather flow
Option B:	Dry weather flow
Option C:	Wet flow
Option D:	Dry flow
Q2.	Which of the following factors does the dry weather does not depend on
Option A:	Rate of water supply
Option B:	Population growth
Option C:	Infiltration of groundwater
Option D:	Design of sewer system
Q3.	An egg-shaped sewer, when compared to a circular sewer is
Option A:	Economical
Option B:	More stable
Option C:	Easier to construct
Option D:	Provides better self-cleansing velocity at low discharges
Q4.	The flow in a sewer is
Option A:	Pressure flow
Option B:	open channel flow
Option C:	Laminar flow
Option D:	super critical flow
Q5.	Self-cleansing velocity in sewer is
Option A:	The silting occurs at the bottom
Option B:	The scouring occurs at the bottom
Option C:	The silting and scouring both occur at the bottom
Option D:	Neither silting nor scouring occur at the bottom
Q6.	The internal diameter of the sewer should not be less than
Option A:	15cm
Option B:	25cm
Option C:	50cm

Option D:	75cm
Q7.	The self-cleansing velocity, recommended for Indian conditions, in order to prevent settling down of a sewage at bottom or on the sides of a large sewer is
Option A:	0.25m/s
Option B:	0.50m/s
Option C:	0.75m/s
Option D:	1.5m/s
Q8.	Which gas is formed as end product for the decomposition of nitrogenous organic matter?
Option A:	Methane
Option B:	Sulphur dioxide
Option C:	Ammonia
Option D:	Carbon dioxide
Q9.	What does the BOD value of sewage indicate?
Option A:	Concentration of non-degradable organic matters in sewage
Option B:	Concentration of degradable organic matters in sewage
Option C:	Concentration of inorganic matters in sewage
Option D:	Concentration of dissolved oxygen present in sewage
Q10.	How many days BOD value of sewage sample is taken into consideration?
Option A:	20 days
Option B:	15 days
Option C:	10 days
Option D:	05 days
Q11.	Where the strong oxidizing agents are used to stabilize the organic matters?
Option A:	In BOD
Option B:	In COD
Option C:	Both in BOD and COD
Option D:	Neither in BOD nor in COD
Q12.	How much time is required for COD test?
Option A:	03 hrs
Option B:	8 hrs
Option C:	12 hrs
Option D:	24 hrs
Q13.	What is the solid retention time considered while designing the aerated lagoon?
Option A:	7-8 days
Option B:	3-6 days
Option C:	1-2 days

Option D:	10 days
Q14.	What is the detention period of oxidation pond?
Option A:	12-36 hours
Option B:	4 hours
Option C:	10-20 days
Option D:	30-60 seconds
Q15.	What is the temperature which should not be exceeded for the reaction in UASB?
Option A:	20°C
Option B:	32°C
Option C:	38°C
Option D:	45°C
Q16.	While designing an aeration tank for the ASP what is the volumetric organic loading rate considered?
Option A:	0.3-3
Option B:	0.03-0.2
Option C:	3-5
Option D:	5-7
Q17.	What is the percentage of methane produced during sludge digestion?
Option A:	0-15%
Option B:	15-30%
Option C:	30-45%
Option D:	60-70%
Q18.	Which of the following units work on the principle of anaerobic decomposition?
Option A:	sedimentation tank
Option B:	trickling filter
Option C:	sludge digestion tank
Option D:	activated sludge plant
Q19.	Digested sludge is used as
Option A:	waste
Option B:	clay
Option C:	fertilizer
Option D:	building bricks
Q20.	Factors not affecting sludge digestion is
Option A:	Temperature
Option B:	pH
Option C:	Seeding
Option D:	atmospheric pressure
Q21.	Gully traps used for

Option A:	Raw water
Option B:	Sullage
Option C:	Sewage
Option D:	Roof drain
Q22.	Reuse of treated waste water
Option A:	Gardening, flushing tank car washing etc.
Option B:	Algal growth
Option C:	Eutrophication of lakes
Option D:	Drinking
Q23.	In Imhoff tank Clear or free zone is known as
Option A:	Flocculation zone
Option B:	Sedimentation zone
Option C:	Digestion zone
Option D:	Neutral zone
Q24.	Imhoff tank hopper made with side slope
Option A:	01:01
Option B:	02:01
Option C:	02:02
Option D:	02:01
Q25.	Soak pit design based on B.I.S.
Option A:	IS 2470-1973
Option B:	IS 10500-1973
Option C:	IS 10500-1963
Option D:	IS 2470-1963

Program: BE CIVIL Engineering
Curriculum Scheme: Revised 2012
Examination: Final Year Semester VII
Course Code: CE-C704 and Course Name: EE-II

Time: 1 hour

Max. Marks: 50

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

Q17.	D
Q18.	C
Q19.	C
Q20.	D
Q21.	D
Q22.	A
Q23.	D
Q24.	A
Q25.	D