

Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: CE-C604 and Course Name: Environmental Engineering – II

Time: 1-hour

Max. Marks: 50

=====

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

Q1.	The sewer that unloads the sewage at the point of treatment is called
Option A:	Main sewer
Option B:	Outfall sewer
Option C:	Branch sewer
Option D:	House sewer
Q2.	For sewers, inverted siphon is provided for
Option A:	One Pipe
Option B:	Two Pipes
Option C:	Three Pipes
Option D:	Four Pipes
Q3.	Water content of sewage is about
Option A:	90%
Option B:	95%
Option C:	99%
Option D:	9.9%
Q4.	The drop manholes are provided in sewerage system when there is.
Option A:	Change in alignment of sewer line
Option B:	Change in size of sewers
Option C:	Change in elevation of ground level
Option D:	Change from gravity system to pressure system
Q5.	Sewage pumping station are designed for
Option A:	5-10 yrs
Option B:	40-50 yrs
Option C:	30-40 yrs
Option D:	15-20 yrs
Q6.	Which is the primary force acting on the Settleable particles?
Option A:	Gravitational force
Option B:	Centrifugal force

Option C:	Mechanical force
Option D:	Radial force
Q7.	The detention period for grit chambers may vary from
Option A:	45 – 90 seconds
Option B:	50 – 60 seconds
Option C:	1 – 2 hrs
Option D:	30 – 40 seconds
Q8.	Skimming tank is used to remove specially
Option A:	Oil and grease
Option B:	Solid particles
Option C:	Floating materials
Option D:	Plastic materials
Q9.	In India, the average temperature of sewage is
Option A:	10°C
Option B:	20°C
Option C:	40°C
Option D:	80°C
Q10.	Domestic wastewater becomes strong if COD concentration is
Option A:	500 mg/l
Option B:	750 mg/l
Option C:	1000 mg/l
Option D:	800 mg/l
Q11.	A land area that is saturated with water permanently or seasonally having the characteristics of a distinct ecosystem is known as,
Option A:	Sludge drying bed
Option B:	Wetland
Option C:	Oxidation pond
Option D:	Trickling filter
Q12.	A primary sedimentation tank is not required for,
Option A:	Activated Sludge process
Option B:	Tapered aeration
Option C:	Trickling filter
Option D:	Extended aeration system
Q13.	The maximum BOD removal efficiency is achieved in,
Option A:	Oxidation Pond
Option B:	Oxidation Ditch
Option C:	Aerated lagoon
Option D:	Trickling filter

Q14.	What is density of sludge removed from aeration tank.
Option A:	990 kg/m ³
Option B:	1000 kg/m ³
Option C:	1011 kg/m ³
Option D:	1022 kg/m ³
Q15.	In the concept of self-purification of natural streams, solution to pollution is
Option A:	Control
Option B:	Reuse
Option C:	Recycle
Option D:	Dilution
Q16.	D.O. concentration may fall to zero , causing anaerobic conditions in a river reach, called:
Option A:	Zone of degradation
Option B:	Zone of active decomposition
Option C:	Zone of Recovery
Option D:	Clear water zone
Q17.	Which factor does not affect self purification process?
Option A:	Temperature
Option B:	Sunlight
Option C:	Shape of Stream
Option D:	Dilution
Q18.	The formulation for BOD assimilation in a stream should include:
Option A:	BOD rate constant
Option B:	Sedimentation of organic matter
Option C:	BOD rate constant and sedimentation of organic matter
Option D:	Pathogenic bacterial decay coefficient
Q19.	Digestion period in zone of thermophilic digestion of temperature of 54°C is
Option A:	5-10 days
Option B:	15-20 days
Option C:	10-15 days
Option D:	20-25 days
Q20.	pH value of sewage should be between
Option A:	6 to 6.5
Option B:	6.5 to 7.1
Option C:	7.2 to 7.5
Option D:	7.6 to 8
Q21.	What is the term used for reuse of sewage sludge?
Option A:	Biosolids
Option B:	Compost

Option C:	Sludge
Option D:	Solids
Q22.	Sludge which is deposited in secondary clarifier is called
Option A:	Primary sludge
Option B:	Secondary sludge
Option C:	Normal sludge
Option D:	Raw sludge
Q23.	Which of the below is not an idea behind solid waste management?
Option A:	Control of waste generation
Option B:	Storage and collection
Option C:	Disposal
Option D:	Stop waste generation
Q24.	The term ISWM refers to:
Option A:	International Solid Waste Management
Option B:	Integrated Solid Waste Management
Option C:	Integrated Solid Waste Machine
Option D:	International Solid Waste Mechanism
Q25.	Which of the following metal causes bronchial maladies?
Option A:	Lead
Option B:	Barium
Option C:	Chromium
Option D:	Plastic