

University of Mumbai

Examination 2020

Program: ___ CIVIL Engineering

Curriculum Scheme: Rev2016

Examination: Third Year Semester VI

Course Code: CEC604 and Course Name: Env. Engg-II

Time: 1 hour

Max. Marks: 50

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

Q1.	Which of the following is infectious waste
Option A:	Biomedical waste
Option B:	Agricultural waste
Option C:	Commercial waste
Option D:	Domestic waste
Q2.	This type of waste collection system used in congested area
Option A:	Set out- set back system
Option B:	Alley system
Option C:	Curb side collection system
Option D:	Backyard collection system
Q3.	Toxicity is the----- characteristics of solid waste
Option A:	Physical
Option B:	Chemical
Option C:	Biological
Option D:	Hazardous
Q4.	Completion of composting process is checked by-----
Option A:	MNK value
Option B:	NPK value
Option C:	CNK value
Option D:	DMK value
Q5.	This is the hygienic method for collection of sewage
Option A:	conservancy system
Option B:	water carriage system
Option C:	partially combined system
Option D:	separate system
Q6.	This is the attached growth process
Option A:	trickling filter
Option B:	septic tank
Option C:	aerated lagoon
Option D:	activated sludge process
Q7.	F/M ratio for the activated sludge process should be between

University of Mumbai
Examination 2020

Option A:	0.5- 0.7
Option B:	0.4-0.6
Option C:	0.6-0.8
Option D:	0.3-0.4
Q8.	DO level in water should be maintained for aquatic life
Option A:	less than 0.4 mg/l
Option B:	more than 0.4 mg/l
Option C:	less than 4mg/l
Option D:	more than 4mg/l
Q9.	BOD demand is measured after
Option A:	5 days
Option B:	7 days
Option C:	10 days
Option D:	21 days
Q10.	For self-cleansing effect in the sewer velocity should be
Option A:	more than 0.3 m/minute
Option B:	less than 0.3 m/minute
Option C:	less than 3m/sec
Option D:	more than 3m/sec
Q11.	Imhoff cone is used to determine
Option A:	settle able solid
Option B:	fixed solid
Option C:	dissolve solid
Option D:	volatile solid
Q12.	sludge volume index is measured in
Option A:	mg/l
Option B:	l/mg
Option C:	gm/ml
Option D:	ml/gm
Q13.	surface loading rate in trickling filter is given by
Option A:	Q/surface area
Option B:	5 day BOD/ surface area
Option C:	Q/ volume
Option D:	5 day BOD/ volume
Q14.	The ratio of BOD5/ BOD of domestic sewage per capita per day is called
Option A:	ultimate BOD
Option B:	COD
Option C:	relative stability
Option D:	population equivalent
Q15.	nital DO of water sample is 8 mg/l and final DO is 4.5 mg/l. find the 5 day BOD

University of Mumbai
Examination 2020

	if dilution factor is 50
Option A:	200 mg/l
Option B:	150 mg/l
Option C:	175 mg/l
Option D:	125 mg/l
Q16.	Velocity of sewage flow through the sewer is determined by
Option A:	Lacy's formula
Option B:	chezy's formula
Option C:	friction formula
Option D:	Manning's formula
Q17.	Recirculation ratio is denoted by
Option A:	R
Option B:	R/I
Option C:	I/R
Option D:	I
Q18.	soak pits are provided for
Option A:	sedimentation tank
Option B:	sludge digestion tank
Option C:	septic tank
Option D:	imhoff tank
Q19.	two pipe system has number of pipes
Option A:	1
Option B:	2
Option C:	3
Option D:	4
Q20.	minimum water level maintained in traps
Option A:	25- 75mm
Option B:	50-100mm
Option C:	75-125mm
Option D:	100-150mm
Q21.	Dilution and dispersion is the forces of self purification of stream
Option A:	Chemical
Option B:	Physical
Option C:	Biological
Option D:	Mechanical
Q22.	Oxygen content increases in self purification process by
Option A:	Sunlight
Option B:	Reduction
Option C:	Dilution
Option D:	sedimentation process

University of Mumbai
Examination 2020

Q23.	Depth of the Oxidation pond should be
Option A:	1-1.5M
Option B:	2-- 3 M
Option C:	1.5- 2.5M
Option D:	2.5-3.5M
Q24.	The gas which is evolved in sludge digestion tank is mainly composed of
Option A:	Nitrogen
Option B:	Methane
Option C:	Hydrogen sulphide
Option D:	Ammonia
Q25.	Manhole is classified as deep manhole if depth is more than
Option A:	1.5 M
Option B:	2.5M
Option C:	3.5 M
Option D:	4.5M