Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

Course Code: CE-C504 and Course Name: Environmental Engineering -I

Time: 1hour

Max. Marks: 50

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

Q1.	What is the permissible limit of turbidity for potable water as per BIS?	
Option A:	5 ppm-10 ppm	
Option B:	50 ppm-100 ppm	
Option C:	100 ppm-300 ppm	
Option D:	300 ppm - 500 ppm	
Q2.	What is the thickness of gravel bed aerator?	
Option A:	5 to 6 m	
Option B:	0.2 to 1 m	
Option C:	3.5 to 4.5 m	
Option D:	1 to 1.5 m	
Q3.	What is the frequency of cleaning of a slow sand filter?	
Option A:	1 week	
Option B:	1-3 months	
Option C:	2-3 days	
Option D:	1-3 months	
Q4.	Approximately 1 mg/lit fluoride in drinking water helps to prevent	
Option A:	Mottling	
Option B:	Fluorosis	

Option C:	Dental cavities	
Option D:	Blue baby disease	
Q5.	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	
Q6.	In which of the following distribution system the clean water flows entirely under gravity?	
Option A:	Gravity system	
Option B:	Pressure system	
Option C:	Combined gravity and pumping system	
Option D:	Pumping system	
Q7.	Bell and spigot joint is also called as	
Option A:	Socket and spigot joint	
Option B:	Expansion joint	
Option C:	Flanged joint	
Option D:	Flexible joint	
Q8.	Which of the following is not the type of Aerator?	
Option A:	Cascade	
Option B:	Slat tray	
Option C:	Trickling bed	
Option D:	Plate tray	
Q9.	Which of the following causes a decrease in per capita consumption?	
Option A:	Use of metering system	

Q14.	What is permisible limit of turbidity for potable water as per BIS?	
Option D:	Ca (OH ₎₃	
Option C:	CO ₂	
Option B:	CaSO ₄	
Option A:	AI (OH) ₃	
Q13.	What indicates the permanent hardness when alum is added to water?	
Option D:	8B	
Option C:	4B	
Option B:	2B	
Option A:	В	
Q12.	The length of rectangular sedimentation tank should not be more than (Where 'B' is the width of the tank)	
Option D:	1.8	
Option C:	1.4	
Option B:	1.2	
Option A:	1	
Q11.	The ratio of the maximum daily consumption to the average daily demand is	
Option D:	Dissolved salts	
Option C:	Iron and Manganese	
Option B:	Hardness	
Option A:	Odour and Taste	
Q10.	Activated Carbon used to remove	
Option D:	Hotter climate	
Option C:	Better standard of living of the people	
Option B:	Good quality of water	

Option A:	5 ppm-10 ppm	
Option B:	50 ppm-100 ppm	
Option C:	100 ppm-300 ppm	
Option D:	300 ppm - 500 ppm	
Q15.	Which is not a type of water filter?	
Option A:	Slow sand filter	
Option B:	Rapid sand filter	
Option C:	Pressure filter	
Option D:	Speed filter	
Q16.	In distribution pipes, air valves are provided at	
Option A:	lower point	
Option B:	junction point	
Option C:	higher point	
Option D:	anywhere	
Q17.	The temperature at which the softening of water takes place by lime soda process is	
Option A:	10°C - 21°C	
Option B:	20°C - 30°C	
Option C:	39°C - 45°C	
Option D:	90°C	
Q18.	Where EDTA (Ethylene Diamine Tetra Acetic Acid) method is used?	
Option A:	To determine turbidity of water	
Option B:	To determine alkalinity of water	
Option C:	To determine chlorides content in water	
Option D:	To determine hardness of water	

Q19.	According to the Indian Standard recommendations, a water requirement per head per day is assumed for residential buildings is	
Option A:	50 litres	
Option B:	115 litres	
Option C:	135 litres	
Option D:	160 litres	
Q20.	Which type of pipe fitting that can be used in the place where four pipes meet together?	
Option A:	Bend	
Option B:	Cross	
Option C:	Elbow	
Option D:	Tees	
Q21.	How air bubbles travel in air diffusion basin?	
Option A:	From top towards downward side	
Option B:	From bottom towards upward side	
Option C:	From left towards right side	
Option D:	From right towards left side	
Q22.	Coagulants, used in water treatment, function better when the raw water is	
Option A:	Acidic	
Option B:	Alkaline	
Option C:	Neutral	
Option D:	Turbid	
Q23.	Per capita demand of water is calculated in	
Option A:	Liters per person per day	
Option B:	Liters per person per month	
Option C:	Liters per person per year	
Option D:	Liters per person per hour	

Q24.	What is the minimum diameter of pipes used for house drainage of waste water?	
Option A:	50 mm	
Option B:	75 mm	
Option C:	100 mm	
Option D:	105 mm	
Q25.	Which is the correct statement regarding per capita demand?	
Option A:	Daily water required by an individual	
Option B:	Water required for various purpose of a person	
Option C:	Water required by an individual in a year	
Option D:	Annual average amount of daily water required by one person	

Program: BE Civil Engineering Curriculum Scheme: Revised 2016 Examination: Third Year Semester V Course Code: CEC504 and Course Name: Environmental Engineerring-I

Max. Marks:

Time: 1hour 50

Correct Option Question (Enter either 'A' or **'B' or 'C' or 'D')** ٨

Q1.	А
Q2.	D
Q3.	В
Q4	С
Q5	В
Q6	А
Q7	А
Q8.	D
Q9.	А
Q10.	А
Q11.	D
Q12.	С
Q13.	В
Q14.	А
Q15.	D
Q16.	С
Q17.	А
Q18.	D
Q19.	С

Q20.	В
Q21.	В
Q22.	В
Q23.	А
Q24.	В
Q25.	D