2021

WATER SUPPLY AND SANITARY ENGINEERING

Full Marks: 60

Time: Two hours

The figures in the margin indicate full marks for the questions.

	3.6.1		1 20 20
A.			1 x 20=20
	1.	Two sets of sewers are laid in system	
		a. separate	
		b. combine	
		c. Partially combined	
		d. All of these	
	2.	The precipitation occur due to topographical barriers:	
		a. Convective precipitation	
		b. Orographic precipitation	
		c. Cyclonic precipitation	
		d. All of the above	
	3.	What is the body of permeable rock which can contain or transmit groundwater called?	
		a. Bore well	
		b. Aquifer	
		c. Canal	
		d. Water table	
	4.	The type of rain gauge, which is installed at hilly and inaccessible areas is	
		a. Tipping bucket type	
		b. Weighing type	
		c. Float type	

d. none of these

5.	The	e pipe through which liquid waste carrying human excreta flows, is called	
	a.	Waste pipe	
	b.	anti- siphonage pipe	
	c.	soil pipe	
	d.	vent pipe	
6.	The water supply consists of a connection point from where the fire fighters can tap water and is called as		
	a.	Fire hydrant	
	b.	Fire point	
	c.	Water towers	
	d.	ditches	
7.	The water tap at your house is known as		
	a.	Sluice tap	
	b.	Stop cock	
	c.	Bib cock	
	d.	ferrule	
8.	The devices installed for drawing water from different water sources are called		
	a.	Intake	
	b.	Filter	
	c.	Outlet	
	d.	inlet	
9.	A city supplies includes		
	a.	Domestic water demand	
	b.	Industrial and commercial water demand	
	c.	Demand for public uses and fire	
	d.	All of the above	
10.	Which of the following is an advantage of separate sewers?		
	a.	Rivers are polluted	
	b.	Nuisance potential is reduced	
	c.	Size of the sewers are small	

	a.	It proves economical	
11.	Wh	at is the shape of the septic tank?	
	a.	Square	
	b.	Rectangle	
	c.	Oval	
	d.	circular	
12.	The	e most widely used type of a tube well in India is:	
	a.	Cavity well	
	b.	Strainer well	
	c.	Dug well	
	d.	Ranney well	
13.	A d	lrop manhole is provided if	
	a.	A sewer drop from a height	
	b.	a branch sewer discharges into the main sewer at higher level	
	c.	both (a) and (b)	
	d.	none of these	
14.	Asł	pestos pipes are made of	
	a.	Cement	
	b.	Silica and asbestos	
	c.	Asbestos cement	
	d.	None of these	
15.	Che	eck valve is also called as	
	a.	Non return valve	
	b.	Gate valve	
	c.	Knife valve	
	d.	Choke valve	
16.	What are the structures that are constructed at suitable intervals along the sewerage system called?		
	a.	manholes	
	b.	Catch basin	
	c.	pumps	

	d. Sewer appurtenances		
17.	A masonry or R.C.C. chamber constructed at suitable intervals along the sewer lines, for providing access into them is called		
	a. manhole		
	b. Inverted siphons		
	c. Flushing tank		
	d. Clean outs		
18.	is constructed outside the building to carry wastewater discharge.		
	a. Gully trap		
	b. S trap		
	c. P trap		
	d. Floor trap		
19.	At the last main hole of building sewerage, is provided.		
	a. Grease trap		
	b. Gully trap		
	c. Intercepting trap		
	d. Nahini trap		
20	What is the device used to prevent sewer gases from entering the buildings?		
	a. Filters		
	b. traps		
	c. ventilators		
	d. Vacuum pumps		
Very	y Short Questions		
1.	What should be the characteristics of materials to be used for sewers?		
2.	Mention various types of joints used in sewer line		
3.	Mention various types of fitting used in pipe		
4.	Mentions various types of pumps		
5.	Compare the continuous and intermittent systems of water		
6.	Mention various sources of water		
Shor	rt Questions	4*7=28	
1.	Describe the procedure for laying and testing of sewer		

B.

C

- 2. Describe with the neat sketch, the working of reciprocating pump
- 3. Describe in brief various types of water carriage system
- 4. Explain the working of manhole with the help of neat diagram
- 5. Briefly explain various types of valves in water work practice
- 6. Explain various types of distribution system
- 7. Explain in brief effect and preventive measures of pipe corrosion