CT-402/WS&SI/4th Sem/2017/N

WATER SUPPLY AND SANITARY INSTALLATION

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

PART – A Marks – 25

Choose the correct answer from the options given below in each of the statement:

1. The water supply system means

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- (a) the entire scheme of collection and disposal of liquid waste
- (b) the complete layout from the source of supply to the distribution
- (c) construction of reservoirs
- (d) construction of canals

Turn over

2.	The water obtained from the tube wells is known		
	(a)	surface water	
	(b)	sub-surface water	
	(c)	run-off	
	(d)	potable water.	
3.	When in the previous strata, the surface of water surrounding the well is at atmospheric pressure, the well is known as		
	(a)	gravity well	
	(b)	artesian well	
	(c)	open well	
	(d)	deep well.	
4.	The	earth's water circulatory system is known as	
	(a)	water cycle	
	(b)	hydrological cycle	
	(c)	precipitation cycle	
	(d)	All of these.	
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5.	The	open wells or dug wells are also known as
	(a)	shallow wells
	(b)	draw wells
	(c)	percolation wells
	(d)	All of these.
6.	The	open wells or dug wells 2
	(a)	act as a small storage reservoir
	(b)	are suitable for a small discharge
	(c)	are cheap in construction
	(d)	All of these.
7.	A sl	uice valve, in water distribution system, is used
	(a)	protect the pipe against negative pressure
	(b)	regulate the flow of water through the pipe
	(c)	prevent water to flow back in the opposite direction
	(d)	All of the above.

tiet-ibution system, is used
8. A reflux valve, in water distribution system, is used 2
to pressure
(a) protect the pipe against negative pressure
(b) regulate the flow of water through the pipe
(c) prevent water to flow back in the opposite
direction
(d) All of the above.
9. A septic tank is a
(a) sedimentation tank
(b) digestion tank
(c) combination of sedimentation and digestion
tank
(d) aeration tank.
10. Manholes are generally, located 2
(a) at all changes of direction
(b) at all changes of gradient
(c) at all junctions of main and branch sewers
(d) All of these.
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11.	The	storm sewers are essentially required to 2
	(a)	avoid creation of unfavorable healthy conditions
	(b)	improve the general appearance of the city
	(c)	dispose off the first washings of early showers as quickly as possible
	(d)	All of the above.
12.		e sewage should be disposed off without causing our and nuisance.

- (a) Right
- (b) Wrong.
- 13. Aerobic bacteria takes place in the
 - (a) presence
 - (b) absence.

PART - B

Marks - 45

Answer any five questions.

- 14. Describe different methods or layouts of distribution systems in detail and with figures. 9
- 15. What are intake structures? Describe in details about different intake structures with figures. 9

- 16. Explain about different types of rain gauges.
- 17. What are the different sources of water? Explain various types of precipitation.
- 18. Describe about the different types of pumps and explain how they work with figures.
- 19. What are the different types of wells? Explain the working and construction details of each with figure.