Bengal Engineering and Science University, Shibpur B. Arch. Part – II, Third Semester Examination; 2012

PLUMBING SERVICES (AR-304)

Time: 3 Hours Full Marks: 70

All	questi	ons a	re compul	sory. N	Veat a	<i>ippropr</i>	riate sk	cetche	es will	be g	iven d	lue c	redi	t.
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1.	Fill i	n the gaps with appropriate word / words:—	1 x 10					
	(i)	(i) shall mean coupling, flange, branch, bend, tees, elbows, unions, waste with pl						
		or S trap with vent, stop ferrule, stop tap, bib tap, pillar tap etc.						
	(ii)	is the liquid made up of the soil wastes and the waste water from h	ouses,					
		factories, industries etc. and storm water.						
	(iii)	system refers to supply of water to various floors in a building directly from	om the					
		mains which have sufficient pressure.						
	(iv)	A system of drainage refers to combination of runoff mixed with sa	anitary					
		sewage and rest amount flowing through surface drain.						
	(v)	Other than 'pumping with intermediate storage' and 'pumping only' systems, is						
		another system of conveyance of water.						
	(vi) As per NBC 2005, a thumb rule for calculation of capacity of the storage tanks for							
		where both OHT and UGT are provided, excluding fire fighting requirements,	s that					
		% of one day's requirement is to be borne by OHT.						
	(vii)	For discharge computation of downtake taps, almost all studies based on the	of					
		flow, pipe roughness and flow pattern yields accurate and mutually consistent results	over a					
		wide range of flow compared to empirical formulae.						
	(viii) The water supply requirement for restaurants as per NBC 2005 is lit per head per day.							
	(ix)	· · · · · · · · · · · · · · · · · · ·						
	(x)	When pH value of a water sample is six, it is said to be						
2.	Writ	e short notes on the following:	6 x 3					
	(a) Classification of ground water;							
	(b) Sitting type water closet;							
	(c) F	Balancing reservoir.						
3.	(a) W	What are the aims of designing a drainage system and how these aims can be realized?	2 + 5					
J .	(b) With a neat sketch explain the working of a drop manhole. 5 + 2							
4.		gn a septic tank for an isolated building where seven families reside and draw neat ske	etch of					
	its lo	ngitudinal section. Assume any data that is necessary for your design.	7 + 7					
5.	Write	e short notes on the following:	7 x 2					
	(a) Air relief valve;							
	(b) S	Spigot and socket joint.						