29-1-9

B. Arch. Part - II 3rd Semester Final Examination, 2008

PLUMBING SERVICES (AR - 304)

Time: 3 hours

Full Marks: 70

To the point answers with appropriate proportionate sketches, wherever necessary, are appreciated.

Answer to question no. 1 is compulsory.

Answer any other five questions taking at least one from each of the groups A. B and C.

1.	Fill i	in the following blanks with appropriate word or group of words: $-$ 1 x 10						
	(i)	The flow of water or other liquids, mixtures of substances into the distributing pipes of a system of supply potable water from any source or sources other than its intended source with a direction reverse to that intended is termed as of water.						
	(ii)	A pipe connecting one or more soil appliances to the main soil pipe is termed as						
	(iii) is the open waterway through which sewage, storm water or other liquid waste flow at the invert of a manhole or an inspection chamber.							
	(iv)	The topmost point of the inside of a trap outlet is termed as of trap.						
	(v) tap is a tap connected to a system of piping not subject to water pressure from the water main.							
	(vi) shall mean coupling, flange, branch, bend, tees, elbows, unions, waste with plug, P or S trap with vent, stop ferrule, stop tap, bib tap, pillar tap etc.							
	(vii) The line joining the points of greatest depths below ground level up to which the moisture in the soil freezes is called as line.							
	(viii) water is the water which is satisfactory for drinking, culinary and domestic purporand meets the requirements of the water supplying authority.							
	(ix) is a fittings or device so designed and constructed as to provide, when properly vented, a liquid seal which will present the back passage of air without materially affecting the flow of sewage or waste water through it.							
	(x)	is an overflow pipe so fixed that its outlet, whether inside or outside a building, is in a conspicuous position where the discharge of any water therefrom can be readily seen.						
	GROUP — A							
2.	(a) <i>I</i>	Make a comparative study between 'Continuous' & 'Intermittent' water supply. 4						
	(b) s	State the general requirements of water distribution system.						
3.	(a) \	Why should one require water to be stored in a reservoir of a building? 2						
	(b) l	Oraw neat labelled sketch of an overhead reservoir situated on staircase block of a building. 10						

GROUP - B

4.	Closet.	a 'Squatting Type' Water Closet and	a 'Sitting Typ	e' Water	
5.	(a) Classify 'trap' on the basis of their			12	
	(L) C	use and / or location.		3	
,	(b) Compare the various provisions of "	inlet' and 'outlet' pipes in different tr	ap chambers.	q	
6.	isolated building where four families reside. Mention any data that you assume necessary for you design.				
7.	(a) Define a 'plumbing system'.			12	
	(b) Make a comparative study between different plumbing systems.			2	
	mp water o study between	different plumbing systems.		10	
		GROUP - C			
8.	Write short notes on the following:-			•	
	(a) Air relief valve,			6 x 2	
	(b) Stop Cock.				
9.	Write short notes on the following:				
	(a) Spigot and socket joint,			6 x 2	
	(b) Lagging of pipes.				