## Third Semester B.Arch. Degree Examination, Dec.2015/Jan.2016 **Building Services - I**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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		C <sup>2</sup> A	
1	a.	What do you understand by per capita demand of water? How it is determined?	(10 Marks)
	b.	Explain the factors affecting water demand.	(10 Marks)
		9,1	(10 1/11/103)
2	a.	Explain briefly the theory of sedimentation.	(08 Marks)
_	b.	Explain with a neat sketch, continuous flow type sedimentation tank.	(12 Marks)
	-	by pain with a new storen, continuous now type seamentation tunk.	(12 (1141 K3)
3	a.	Differentiate between slow sand and rapid sand filter with atleast one sketch.	(12 Marks)
	b.	What is meant by disinfection of water?	(04 Marks)
	c.	Explain briefly disinfection by chlorination.	(04 Marks)
	0.	Explain orieny disintection by emormation.	(04 Marks)
4	а	Define i) Sewer ii) Sewerage iii) Sewage iv) Sullage v) Garbage.	(10 Marks)
		Explain with a neat sketch, the working of a Drop manhole.	(10 Marks)
	O.	Explain with a heat sketch, the working of a Diop mannote.	(10 Marks)
5	a	What are traps? What are the requirements of a good trap?	(10 Marks)
5		What is a hydrant and where it is located? What are its types? How does it work?	(10 Marks)
	U.	What is a flydrafic and where it is located. What are its types: flow does it work:	(10 Marks)
			(10 1111113)
6	Wit	h the help of a good sketch, show external and internal drainage system for a one	e bed room
		ependent residence. Draw drainage plan and site boundary.	(20 Marks)
		, and a second s	(20 1121113)
7	a.	Explain with neat sketches, the working of a septic tank.	(10 Marks)
		Write short notes on :	(101111111)
	20	i) Oxidation pond.	(05 Marks)
		ii) Maintenance of House drainage.	(05 Marks)
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8	Ex	plain the following methods of carrying water:	
Ä		Conservancy system.	(10 Marks)
		Water carriage system.	(10 Marks)
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