Faculty of Engineering & Technology

B.Arch. (Architecture) Fifth Semester (CGS) Examination

BUILDING SERVICES AND EQUIPMENT

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Paper-5 AR 02

Time:	Three Hours]	[Maximum Marks: 80
		CANDIDATES is upon drive adiabased
(1)	All questions carry marks as indicated.	
(2)	Answer FOUR questions.	
(3)	Question No. 5 is compulsory.	
. (4)	Due credit will be given to neatness and	
(5)	Assume suitable data wherever necessary	(vi) Electrical appliances
(6)	Illustrate your answers wherever necessar	
(7)	Use pen of Blue/Black ink/refill only for writing the answer book.	
1. (a)	Describe the various types of "impurities	" present in water. 9
(b)	Describe with neat sketches how will yo	u give "Hot Water" supply to building. 6
(c)	Sketch the different types of water taps	with their fittings. 5
	OR	
2. (a)	Describe with neat sketches the direct a building.	and indirect systems of water supply to the
(b)	Draw neat sketch of "Bath tub" with a their necessary fittings.	provision of hot and cold water supply with 7
(c)	Describe with neat sketch the "intermitte	nt" system of water supply. State their merit
striami ili S	and demerits.	(c) Differentiate between combined a and demonits:
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3.	(a)	Draw neat sketch of "Toilet Block" with various sanitary fittings.	8
	(b)	Draw drainage plan of a building showing the disposal sewage from starting point the final point of disposal.	to
	(c)	Explain the P.V.C. and C.P.V.C. pipe's used for plumbing. State their merits and demeri	ts 5
		OR	
4.	(a)	Describe with neat sketch "Commode" type w.c. under which circumstances they a used. State their advantages and disadvantages.	re 7
	(b)	State the importance of "Earthing" in electric supply. How the earthing is carriout ?	ec 7
	(c)	Draw neat sketches of P, Q, S trap with water-seal.	6
5.	Des	cribe with neat sketches any four of the following:	
	(i)	Inspection chamber	
	(ii)	Vertical and horizontal inlets	
	(iii)	Systems of electrical wiring	
	(iv)	Bawl and stall type urinals	
	(v)	Kitchen sink	
	(vi)	Electrical appliances	
	(vii)	Water Storage Reservoirs (tanks).	20
6.	(a)	Describe the principles of house drainage system.	7
	(b)	What do you mean by the term "Traps"? State their importance and how they a classified according to use.	are
	(c)	Calculate the standard per head per day water demand.	6
		OR	
7.	(a)	Describe, why water carriage lane system is called as most modern system nowadays.	en 7
	(b)	Define the terms:	
		(i) Sullage	
		(ii) Bacteria	
		(iii) Cowl	
		(iv) Self cleansing velocity of sewer line.	8
	(c)	Differentiate between combined and separate systems of sewerage. State their mer and demerits.	its 5
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