B.Arch. Eighth Scmester (Architecture Engineering) (CGS) 10067: Environmental Services-II 08 AR 03

. P. Pages: 2 Time: Three Hours



AV - 3201

Max. Marks: 80

Ν	 All question carry equal marks. Question No. 5 is compulsory. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing the answer book.
a	fine the term ventilation? Why it is to be carried out. Explain the natural systems of stilation.
b	te the objects of air - conditioning.
c	w the flow diagram of Air conditioning systems for summer & explain in detail.
	OR
a	we sectional elevation of a multistory building with refuse chute and explain it's king in detail.
b	te the importance of service floor. Why it is to be provided.
c]	plain the importance of lightning conductor in multistory building.
a)	we sectional elevation of a Entrance Foyer of a mall with provision of Escalators. 9 slain it's component parts and working detail.
b	plain the combination of supply and extraction systems of ventilations.
c)	plain the systems of Automation in smart building.
	OR
a)	scribe with neat sketches the different types of renewable energy used in building.
b	scribe with neat sketches the energy construction & low energy systems used in Iding.
c)	te the importance of ducting systems in Air Conditioning.
	scribe with neat sketches of any four of following.
	Lifts
	Electricity generation in building

:	http://w	ww.sgbauonline.com/	
		iii) Fire refuse floor	
		iv) Air Handling unit	
		v) Non conventional energy system	
		vi) Plenum system	
		vii) Alarm systems	
6.	. a)	Explain with the help of neat sketches the automatic sprinkler systems used for fire protection.	9
	b)	Describe with neat sketches the important planning considerations, material of constructions & construction techniques used in multi story building against fire.	11
		OR	
7	, a)	What are the different causes of fire in a building and how will you avoid them.	6
	b)	Distinguish between Air conditioning and air cooling.	6

Describe with neat sketches the various means of escape used during the fire in important

8

AV - 3201 2

c)

building.