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USN	#		SARC5.3
	کا	Fifth Semester B. Arch Degree Examination, Dec.2017/Jan.2	018
	,		010
		Building Services – II	
Tin	ne. 3	3 hrs. Max. M	Marks: 100
1 111	iic. L	S III S.	
		Note: Answer FIVE full questions, choosing one full question from each mod	ute.
		Module-1	
1	a.	What is electricity? Explain with sketch any one method of generating electricity	(05 Marks)
	b.	Explain Sub-station its function and types.	(15 Marks)
		OR	
2		Write short notes on any 5 (five) of the following:	
	a. b.	Transformer Generator	
	c.	Primary and secondary distribution line	
	d. e.	HT and LT cables Metering Panel and HT panel	
	f.	A.C and DC	
	g.	National Electric code and I.S Rules.	(20 Marks)
		Module 2	
3	a.	Explain the electrical wiring system and electrical wiring installation system w	ith sketches.
	l _a	List the general ISI Rules related to wiring.	(12 Marks) (08 Marks)
	b.	5	
		OR Specifical sketch	h the features
4	a.	of a NZEB Home.	(10 Marks)
	b.	The state of the s	th sketches.
			(10 Marks)
		Module-3	
5	a.	What are protective devices? Why are they necessary for electrical wiring? I	Explain MCE
	h	and ELCB with sketches. Define a Fuse. Explain with sketches any two types of fuses in detail its advanta	(10 Marks) ages.
	b.	Define a ruse. Explain with sketches any two types of the sketches any	(10 Marks
		OR	0
6	a.	Forthing Why is it pagescary? Explain with sketch any one type of ear	thing. 5
		Explain with sketch the method of lighting protection system in a building	(MO WAIKS
	b	importance of the same.	(10 Marks

Module-4
What is Lighting? Why are the factors contributing to good lighting? (08)
Discuss in detail different lighting systems with neat sketches. And their applications.

(08 Marks)

(06 Marks)

15ARC5.3 (06 Marks) c. Explain with system of luminaries. OR 8 Write short notes on any 5 (Five): Laws of illumination Glare Types of Lamps Sodium vapour Lamp and Mercury vapour lamp Fluorescent Lamp and CFL f. Lighting Schemes Façade Light and Landscape Lighting. (20 Marks) Module-5 With is Extra Low - Voltage system. Explain its necessity in a building? (08 Marks) Explain any 3 – types of Low voltage systems used in buildings in detail. (12 Marks) OR For a 3-BHK individual residence prepare an electrical layout showing the following: 10 a. Light points - Fans - Power Points Low voltages points - Distribution Board and meter board. (14 Marks) b. Calculate the electrical load for the same. (06 Marks)