## CRCS SCHEME

					Q			علايلاكيا		<i>y</i>		
USN								<b>A</b>	(5) Y		18 <i>A</i>	ARC53
		Fifth	Sama	stor F	Arc	h Dec	troe Ex	amina	tion In	ıne/Tu	ly 2023	
		1,11,011	Seme	SICI L		Company to the second	200	San San		inc/5 u	1y 2023	
					Bui	laing	Serv	ices -	- 11			
Tin	ne:	3 hrs.						7		_	Max. Mark	s: 100
			swer an	v <i>FIVE</i>	E full a	uestions	s. choosii	ng ONE t	full auesti	Charles and the	each modu	
			port the		_	AP .	William .	,	A			
		•					3					
							<u>Iodule-</u>			-		-
1											d user with	
		chart. M	ention t	he volt	age lev	els at ea	ach transi	nission ai	nd distrib	ition sta	tion. $(20)$	) Marks)
					3)		OR	G	>* .			
2		Write sh		10. P-100h								
		a)	Short	1	L		4					
		b) c)	Closed Renew					7				
		d)	Parts o				<i>b</i>				(20	) Marks)
		۵,	T ditto	1 04010		A					(	
		And	N T				Y		4.57			
							Iodule-2				_	
3	a.		-		-		its work	. 4 ////		- <		) Marks)
	b.	Differen	tiate bei	tween r	ising n	nain, cir	cuit main	s and sub	mains.	(4)	* (10	) Marks)
							OR (	13.0	<u> </u>	Ø.		
4		Write sh	ort note	s on :	<b>P</b>			<b>V</b>				
		a)	UPS	A Blanch			A		Ge)	¢ .		
		b)		uit wir	2000		¥.		4			
		c)	637	power		/40000a	2					
		d)	Energ	gy cons	ervatio	n techni	iques in e	lectrical	systems		(20	) Marks)
		G	<b>*</b>		4	<b>\</b>						
			pu <sup>d</sup>			N	Iodule-	3.				
5	a.	Describe	the nee	ed for p	rotecti				elaborate	on Farac	lay's cage.	
	open and the second	5										) Marks)
	b.	Recogni	ze the fi	unction	ing and	d parts o	f a circui	t breaker	and its ne	ed in the	e building.	) Marks)
				4							(10	Wiarks)
			4	<b>J</b>		(4)	<i>y</i>					
			P		- 4	4	OR					
6	a.			eed fo	r earth	ing pro	tective of	devices in	n buildin	gs and	elaborate o	
	1	earthing				1.1			-4-1-	3		Marks)
	b.	Interpret	the fun	ctionin	g of Fr	anklin r	oas with	a neat ske	eicn.		(10	) Marks)
				A								

Critically analyze the application of Ambient, Accent & Task lights in building with examples. 7

## 18ARC53

**OR** 

8 a. The point source has an intensity of 2000 candela in all directions and is mounted 4m above

b. the ground. Calculate the Illuminance on the surface directly underneath and at a distance of 3m to the side. (20 Marks)

Module-5

9 Draw an electrical layout for a room and attached bathroom and calculate the connected load

considering the following:

4	Room		Toilet				
SI No.	Equipment	Nos.	Sl. No	Equipment	Nos.		
10	Lights	2	1,	Lights	2		
2	Fan	1	2	Exhaust fan	1		
>3	Plug 5amp	1	3	Plug 5 amp	1		
4	Telephone	10	4	Geyser	1		

(20 Marks)

OR

Define the types of low voltage electrical systems in buildings.

(20 Marks)