Paper / Subject Code: 52871 / Electrical System Design, Management and Auditing

1T00838 - B.E.(Electrical Engineering)(SEM-VIII)(Choice Base Credit Grading System)(R- 2019-20) (C

Scheme) / 52871 - Electrical System Design, Management and Auditing

QP CODE: 10041830 DATE: 08/12/2023 (Duration: 3 Hours) Total Marks: 80

NOTE:

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- 2. Answer any three out of remaining five questions.
- 3. Assume any suitable data wherever required but justified the same.
- 4. Illustrate answer with sketches wherever required.

	Q 1	Answer the following Questions.	[20]
	A.	Why electrical drawings and plans are prepared	5/2
	В.	Why motor control centre are developed	
	C.	Discuss the battery selection criterion for UPS application	
	D.	Discuss the application of cumulative sum method application in industry	
	Q 2 a	Explain how BLDC fans and energy efficient motors are energy efficient.	[10]
	Q 2 b	How will you carry out energy auditing of variable speed drives.	[10]
	Q3a	Discuss how benchmarking is an auditing tool.	[10]
	Q 3 b	Discuss the sizing of bus bar and DG set.	[10]
	Q 4 a	Discuss cable management and installation system.	[10]
	Q 4 b	Discuss how the sizing of transformer is done for a given set of loads.	[10]
	Q 5 a	Discuss the designing of electrical earthing system.	[10]
	Q 5 b	Discuss the sizing and location of capacitors for power factor correction.	[10]
	Q 6 a	Discuss how maximum demand controller is a tool for monitoring and targeting.	[10]
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Q 6 b	Discuss the implementation of energy management system.	[10]
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