B.Arch. Sixth Semester (Architecture Engineering) (CGS)

10051: Acoustics & Illumination: 06 Ar 06

P. Pages: 2 Time: Three Hours



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Max. Marks: 80

1.	Note a) b)	2. 3. 4. 5. 6. Expl	 Question No. five & ten is compulsory. Use of slide rule logarithmic tables, Steam tables, Mollier's Chart, Drawing instrument, Thermodynamic table for moist air, Psychrometric Charts and Refrigeration charts is permitted. I.S.I. Hand book for structural Steel section, I.S. Code 800/1962 or 1964, I.S. 456 (Revised) I.S. 875 may be consulted. Discuss the reaction, mechanism wherever necessary. 	12		
			OR			
2.		What are the constructional and planning measures are taken for good acoustical design of auditorium?				
3,	a)	Wha	t are the various acoustical defects? What are the remedies on it?	12		
	b)	Expl	ain Sabine's equation for R.T. Calculations.			
			OR			
4.	a)	Define Noise and mention it's effect on human health.				
	b)	Describe with net sketches the various types of sound absorbing materials state their advantages and disadvantages?				
5.		Explain with neat sketches any four of the following.				
		a)	Whispering Gallery.			
		b)	Sound shadows.			
		c)	Suspended- sound- Reflectors.			
		d)	Flutter Echo.			
		e)	Sound Reflection & Diffraction?			
6.	a)	Exp	lain point by point method & Lumen method?	12		
	b)	Writ	te the different advantages and disadvantages of artificial lighting?			

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7.	a)	Wh	at is suspended lighting? Explain with sketches the conditions in which they are used.	12
	b)	Wł	nat do you mean by light control and grading?	
8.		Exp	plain types of lighting design and method used for Industries & Auditorium.	12
			OR	
9.	a)	Exp	plain light reflection, refraction, transmission and other relevant phenomenon.	12
	b)	What measures to be taken while designing lighting for office? Explain indirect lighting		
10.		Explain any three of the following?		16
		a)	Flood lighting for exhibition.	
		b)	Street lighting.	
		c)	Discomfort Glare.	
		d)	Under water fixture.	
		e)	Concealed or recessed lighting.	
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