

	b	Explain with diagram cantilever supported at its end and loaded in the middle with necessary formula.	5
	c	State and explain Stoke's law.	4
Q-4		Attempt all questions	
	a	Explain Production of X-rays with suitable diagram.	7
	b	Explain X-ray diffraction by Bragg's law.	7
Q-5		Attempt all questions	
	a	Write a note on : Absorption spectrum	5
	b	Explain about J-J coupling.	5
	c	What is Auger effect? Explain.	4
Q-6		Attempt all questions	
	a	Explain each quantum number with their physical interpretation.	7
	b	Explain about : L-S coupling	7
Q-7		Attempt all questions	
	a	Explain in detail Zeeman effect.	7
	b	Write a note on Gibb's Paradox.	7
Q-8		Attempt all questions	
	a	Explain Equal a priori probability	5
	b	Give an account on specific heat at constant volume.	5
	c	Explain micro canonical ensemble	4

