



	b) Discuss j-j coupling theory of spectra.	05
	c) Write short note on microcanonical ensemble.	05
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Describe briefly L-S coupling theory of molecular spectra.	07
	b) Discuss in brief Gibbs paradox.	07
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) How can X-ray produce practically? Discuss briefly with neat and clean diagram.	07
	b) What is quantum numbers? Discuss briefly with their physical interpretation.	07
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) State Liouville's theorem.	05
	b) Write short note on Ether hypothesis.	04
	c) Discuss Moseley's law.	05

