VP&RPTPScience College

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B.Sc. (Semester - IV) Subject: Physics Course: US04CPHY01
Title of the paper: Electromagnetic Theory and Spectroscopy

Date:	10-03	3-2014, Monday	Time: 1 pm to 2.30 pm	Total Marks:	30
Q-1	Attempt any THREE questions:				[6]
	(a) (b) (c) (d) (e) (f)	Write and explain State Bragg's law f		ation.	
Q-2	Expla [a] [b]	ain: Electric field. Electric potential.	OR LIBRA	RY See	processed framework
Q-2	Desc [a] [b]				[4] [4]
Q-3	Expla [a] [b]	a in: Magnetic field. Magnetic vector p	otential.		[4] [4]
			OR		
Q-3	Desc [a] [b]		on of the vector potential.		[4] [4]
Q-4	Write	e a short note on co	ntinuous X-ray spectrum.		[8]
			OR		
Q-4		-	ley's law. Derive Moseley's om. Discuss any two appli		