CC11

SEMESTER-V

TIME:		
Answer any one:		
Q1		
a) Define spec	ific rotation of a solution for pure liquids. State the factors on which	h it depends.
		2+3
b) Write dow	n the relevant theory for the polarimeter experiment	5
•	ng tube containing sugar solution gives a rotation of $11^{ m 0}$ of the planed light. Find the strength of the solution. Specific rotation of sugar=	
		5
d)Give a brief sketch of a Half Shade Polarimeter/bi quartz polarimeter.		
•	precautions and discussions for the above mentioned experiment. half shade plate? Explain its action?	5
-	biquartz Explain its action.	5
O2 al What i	Trospol's law of reflection 2	5
·	s Fresnel's law of reflection?	
	lown the relevant theory for the experiment	5
	a polaroid ?	5
	the relevant graph for verification of Fresnel's laws	5
	he relevant table for the above verification.	5
f) State tl	ne precautions for the above experiment.	5
(c) Wha (d) Drav	t is light? t is Brewster's angle? t is Brewster's Law? v the relevant sketch showing verification of Brewster's Law. cribe the process of determining Brewster's angle for air glass interf	2 2 2 4
prism. (f) State	e the relevant precautions for the experiment. I the angular altitude of the sun at which sunlight reflected from a s	10 5
	plane polarized. Refractive index of water=4/3	5
