VP & RPTP Science College-Vallabh Vidyanagar First Internal Test: 2013

T Y B.Sc. [Semester-V] Subject-Physics US05CPHY06

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	Date:	07/10/2013 Monday Time:	3.30 pm to 5.00 pm	Total Marks-30
Q-1 1		Multiple Choice Questions: [One m	ark each] 6 X 1 =6	6
(i)		Mesosphere ranges from to	km above sea level.	
	(a)	1 to 8	(b) 8 to 15	
	(C)	15 to 25	(d) 50 to 90	a Sola
(ii)		Which telescope does not use primary mirror?		and anos
	(a)	Newtonian Reflector	(b) Cassegrairian	4
	(c)	Coude	(d) Galilean	LIBRARY [&
(ii	i)			
	(-)	NA		+ L' L'NISORI
		Mass transfer in binaries	(b) Stellar luminosity	V. Not
1-		Stellar temperature	(d) Stellar magnetic field	
(iv) The Sun according to H-R diagram falls in category of stars.				
	· · ·	main sequence	(b) dwarf	
		Cepheid variable	(d) red giants	
(v)		Solar magnetic field cycle has approx		
		5.5 years	(b) 11 years	
		22 years	(d) 100 years	
(v		Flares are believed to have origin in		
		Convection	(b) Prominences	
-		Ejection of solar mass	(d) X type neutral point	
Q-2		Answer the following questions in	short [Attempt any three].	6
		What is diffracted image of a star?.		
(b) Define color index and heat index.(c) Differentiate active and eruptive prominences.				
		ninences.		
	(d) How does coronograph work?			
	(e) What is difference between optical binary and true binaries?			
(f) What is the meaning of R, N, and S class in H-D class				
Q.	.3	Explain difference between slit spectr		oh. 6
			OR	
Q.		Discuss stellar parallax method for m		. 6
Q.	4	Write a note on 11 year Sunspot cycle		6
OR				
Q.		Write a detailed note on flares and their origin.		6
Q-5		Explain luminosity effect on stellar spectra.		6
OR				
Q.	-5	Discuss mass transfer in close binary	system.	6