Q.P.Code 203013	F	Reg. No.:
Second Year B.Sc Optome	etry Degree Supplem June 2015	entary Examinations –
Time: 3 hrs	Visual Optics	Max marks : 80
<ul><li>Answer all ques</li><li>Draw diagram w</li></ul>	tions herever necessary	
Essays		(2x15=30)
Define accommodation and discupoint of accommodation is measure		accommodation. How the near
2. Define myopia. Discuss the etiolog	yy, clinical types and trea	atment of myopia.
Short notes 3. Sturm's conoid		(5x5=25)
4. Principle and procedure of baush a	and lomb keratometry	
5. Discuss the various components o	of hypermetropia	
6. Total internal reflection of light and	d critical angle	
7. Role of cornea and lens in ocular r	refraction	
Answer briefly		(10x2 = 20)
8. Photochromic lenses		
9. Base curve of spectacle lens		
10. Astigmatic fan		
11. How cross cylinder is used to refin	e the axis of a cylindrica	ıl lens.
12. Spherical aberration		
13. Prentice rule		
14. Hypermetropia and normal age val	riation	
15. Principle of retinoscopy		
16. Cycloplegic refraction		
17. Do the toric transposition of +4.0 D	)S – 1.5 D. Cyl 90 degre	es (Base curve -6.0)
One word answer		(5x1=5)
18. Vertex distance should be specified for prescription of more than dioptres		
19. The effective power of a convex lens as it is moved away from the eye		

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20. ----is the centre of optical system formed by the lens and all rays passing

21. Anti reflective coatings on spectacle lenses are based on the principle of ------

through it are undeviated

22. Far point of an emmetropic eye is at ------