

ALLAMA IQBAL OPEN UNIVERSITY

Level: B.Sc. Vision Sciences
Paper: Instruments Optics (494)
Time Allowed: 03 Hours

Semester: Autumn 2009
Maximum Marks: 100
Pass Marks: 40

**Note: ATTEMPT ANY FIVE QUESTIONS. ALL CARRY EQUAL MARKS.
 QUESTION NO (1) IS COMPULSORY.**

Q.No.	Questions	Marks
Q.No.1	Mark True or False. (1) Regarding Foci meter, it measure. a) The optical center of the lens. b) The dioptric vertex power of lens. c) The axis of the lens. d) The presence of prism. e) None of the above. (2) Regarding low vision Aids. a) Binocular telescopes are preferred to monocular telescopes. b) Patients should be given the strongest aid in terms of magnifications. c) Patients should be given the weakest aid in terms of magnification. d) Children require the same magnification as the adults. e) The smaller, the glass area of the magnificater, the lesser is the magnification. (3) A Keratometer measures. a) The thickness of cornea. b) The radius of curvature of the lens. c) The radius of curvature of the posterior surface of cornea. d) The refractine power of cornea. e) None of the above. (4) Regarding Ophthalmic instruments. a) A Synoptophore measure anterior chamber angle. b) A Focimerter measure power of the cornea. c) A tonometer measures intraocular pressure. d) A kertometer measures depth of the anterior chamber. e) Phoropter is a refractor. (5) Regarding tonometers. i. Tonometers don't need sterilization. ii. Goldman applanation tonometer is portable. iii. Schiottz tonometer is allanation tonometer. iv. Perkin's tonometer is an indentation tonometer. v. Applanation tonometers are safer than the indentation tonometers.	20
Q.No.2	Define and discuss direct Ophthalmoscopy. Also write advantages and disadvantages.	20
Q.No.3	Discuss the salient features of fundus camera.	20
Q.No.4	What is keratometry. Discuss the calibration of keratometers.	20
Q.No.5	Define tonometry. Name different types of contact tonometers. Discuss in detail Tonopen tonometer.	20
Q.No.6	Discuss the illumination and magnification system of slit Lamp.	20
Q.No.7	Explain the strategies of Visual field examination.	20
Q.No.8	Write short notes on	20