

## ALLAMA IQBAL OPEN UNIVERSITY

Level: B.Sc.Vision Sciences  
 Paper: **Instruments Optics (494)**  
 Time Allowed: 3 hrs

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

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

<b>Q.NO.1</b>	<p>Mark True or False.</p> <p><b>(i) Goldmann's Lens.</b></p> <p>a) Is a Contact lens.              b) Is a Convex Lens.              c) Can be used with indirect Ophthalmoscope.              d) The Central portion gives of posterior pole of eye.              e) The largest mirror gives view of anterior chamber angle.</p> <p><b>(ii) Regarding Pachometers.</b></p> <p>a) Based on ultrasonic principle.              c) Based on optical principles.              b) Useful in refractive surgery.              c) Useful in glaucoma.              d) All of above.</p> <p><b>(iii) Regarding Tonometers.</b></p> <p>a) Schiottz tonometer is based on Imbert-fick law.              a) Goldmann's tonometer is the most reliable.              b) Tonopen is a non-touch tonometer.              c) Perkins tonometer is an applanation tonometer.              d) Different weights can be used during Schiottz tonometry.</p> <p><b>(iv) Slit Lamp can be used for.</b></p> <p>a) Anterior segment examination.              b) Posterior segment examination.              c) Laser application.              d) Gonioscopy.              e) IOP measurement.</p>
<b>Q.NO.2</b>	Discuss direct Ophthatmoscope.
<b>Q.NO.3</b>	Discuss non Contacting lenses for viewing the fundus.
<b>Q.NO.4</b>	Define Retinoscopy. How you can determine the axis of Astigmatism with the retinoscope.
<b>Q.NO.5</b>	What is Keratometry. Give a brief account on Javal-Schiottz type of Keratometer.
<b>Q.NO.6</b>	Define Tonometry. What do you know about Tonopen tonometer.
<b>Q.NO.7</b>	Discuss the uses of slit lamp.
<b>Q.NO.8</b>	<p>Write notes on.</p> <ul style="list-style-type: none"> <li>• Applanation Tonometer.</li> <li>• Gonioscopy or Perimetry.</li> </ul>

