	Utech
Name:	
Roll No.:	A plane of Exercising and Explana
Invigilator's Signature :	

CS/B.OPTM/SEM-4/BO-402/2012 2012

OPATHALMIC & OPTICAL INSTRUMENTATION & PROCEDURE-II

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

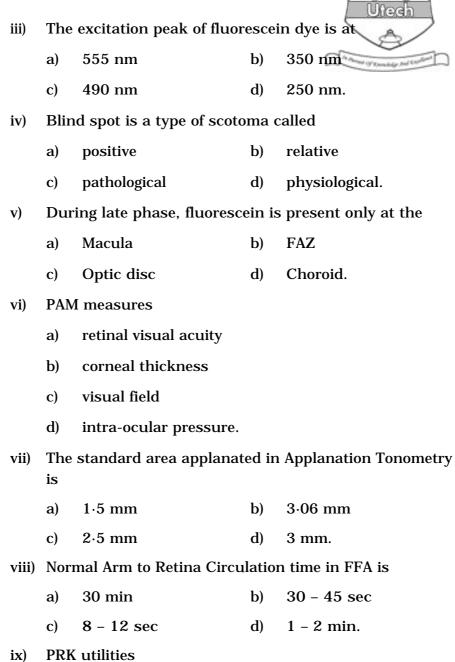
1. Choose the correct alternatives for the following:

 $10 \times 1 = 10$

- i) Tangent Screen Perimetry is a kind of
 - a) one dimensional perimetry
 - b) kinetic perimetry
 - c) static perimetry
 - d) threshold perimetry.
- ii) The standard background illumination of automated perimeter is
 - a) 31.2 apostilb
- b) 31.8 apostilb
- c) 31.5 apostilb
- d) 31.0 apostilb.

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a)

c)

dye laser

carbon dioxide laser

b)

d)

excimer laser

Yag laser.



- x) Blind spot signifies all except
 - a) Physiological scotoma
 - b) Negative scotoma
 - c) Absolute scotoma
 - d) Highest point in hill of vision.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- 2. Write the significance of MD and PSD values in a H.V.F. printout of a case of advanced glaucoma.
- 3. Discuss the importance of the 'PRISM' head in the applanation tonometer. Explain the 'special features' of its construction.
- 4. State Scleral Rigidity and Imbert Flicks law.
- 5. Write on a scan ultrasonography.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 6. a) Discuss briefly the basic principle of perimetry.
 - b) Discuss the reliabity indices (factors) in a HVF Perimetry report.
 - c) Discuss about gray scale, total deviation and pattern deviation. 5 + 5 + 5

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- 7. a) Describe the different phases of FFA.
 - b) What are the indicatives of doing FFA ?
 - c) Mention two important cases of Hypofluorescence and Hyperfluorescence.
- 8. a) Describe Perkins hand held tonometer.
 - b) Mention the differences between a 30 2 and a 24 2 HVF test programe.
 - c) Discuss Nd-Yag laser and its uses.

5 + 5 + 5

- 9. Discuss Lasik under the following heads:
 - a) Basic technique of Lasik
 - b) Complications that can occur, during the surgery and after surgery. 5 + 10

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