

[LB 219]

OCTOBER 2012

Sub. Code: 2225

**M.S. DEGREE EXAMINATION
BRANCH III –OPHTHALMOLOGY
APPLIED BASIC SCIENCES IN OPHTHALMOLOGY
Q.P. Code : 222225**

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

Write notes on

**Pages Time Marks
(Max.) (Max.) (Max.)**

I. ANATOMY

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|---------------------------------------------------------------------------------------------------------------|---|---|---|
| 1. Describe the development and anatomy of Vitreous. | 3 | 9 | 5 |
| 2. Describe the course of Sixth cranial Nerve. | 3 | 9 | 5 |
| 3. Describe the anatomy of the angle of Anterior chamber and developmental anomalies associated with it. | 3 | 9 | 5 |
| 4. Describe the anatomy of the Visual pathways and Visual cortex. Mention localizing signs of visual pathway. | 3 | 9 | 5 |

II. PHYSIOLOGY

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|-----------------------------------------------------------------------|---|---|---|
| 1. Describe the theories of Accommodation and its anomalies. | 3 | 9 | 5 |
| 2. Discuss the factors maintaining the intraocular pressure. | 3 | 9 | 5 |
| 3. Discuss Binocular Vision. | 3 | 9 | 5 |
| 4. Describe the corneal physiology and mechanism of its transparency. | 3 | 9 | 5 |

III. BIOCHEMISTRY

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|---------------------------------------------------------|---|---|---|
| 1. Metabolism of Vitreous. | 3 | 9 | 5 |
| 2. Lipid profile and its significance in Ophthalmology. | 3 | 9 | 5 |
| 3. Glycosylated Haemoglobin and its importance. | 3 | 9 | 5 |

IV. MICROBIOLOGY

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|-------------------------------------------------------------|---|---|---|
| 1. Lab. Diagnosis of Cytomegalovirus. | 3 | 9 | 5 |
| 2. Polymerase Chain Reaction and its uses in Ophthalmology. | 3 | 9 | 5 |
| 3. Sterilization of Operation Theatre. | 3 | 9 | 5 |

V. PHARMACOLOGY

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|----------------------------------------------|---|---|---|
| 1. Local anesthetics in ophthalmic practice. | 3 | 9 | 5 |
| 2. Drugs used in Herpes zoster Ophthalmicus. | 3 | 9 | 5 |
| 3. Tear Substitutes. | 3 | 9 | 5 |

VI. PATHOLOGY

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|------------------------------------------|---|---|---|
| 1. Pathology of Uveitits. | 3 | 9 | 5 |
| 2. Histopathology of Malignant Melanoma. | 3 | 9 | 5 |
| 3. Pathology of Trachoma. | 3 | 9 | 5 |
