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Subject	No. of Questions X Marks	Full Mark	Pass Mark	Time
Service Specific	5 Long questions X10=50 10 Short questions X5=50	100	50	3 hrs.

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Part I: General Subject

20 Marks

1. Apex body in eye care: Composition, Formation and its role in prevention of blindness.
2. Vision 2020: Right to Sight: It's aim and objective.
3. Ethical issues in corneal transplantation
4. Blindness: Global, regional and National Scenario.
5. National Vitamin A Programme
6. Trachoma Control Programme
7. NGO/INGOs working in prevention of blindness in Nepal.
8. Hospital Management
9. Health Sector Reform and Millennium Development Goals
10. Research
11. Medical Education and training in Nepal.

Part II: Technical Subject

80 Marks

1. **Anatomy**
 - 1.1 Anatomy and Embryology of the eye
 - 1.2 Anatomy of the Orbit and its disorders
2. **Optics and Refraction**
 - 2.1 Physical Optics
 - 2.2 Geometric Optics and clinical refraction
 - 2.3 Contact Lens
 - 2.4 Low vision
3. **Anterior Segment Disease**
 - 3.1 The Cornea
 - 3.2 Infections of the ocular adnexa
 - 3.3 Lids and their disorders
4. **The Lens, Cataract and its Management**
5. **Glaucoma**
6. **The Retina**
 - 6.1 Retinal Examination and Surgery
 - 6.2 Retinal Detachment
 - 6.3 Photocoagulation and Cryopexy
 - 6.4 Retinoblastoma and Leukokoria
 - 6.5 The Phakomatoses
 - 6.6 Diabetic Retinopathy

- 6.7 Hypertensive Retinopathy
- 6.8 Vascular Anomalies of the retina
- 6.9 ROP

7. Vitreous and Vitreous surgery

8. Uveal Tract

- 8.1 Anatomy, Congenital Anomalies and Tumors
- 8.2 Uveitis

9. Medical Ophthalmology

- 9.1 Ocular Manifestations of Selected Systemic Diseases
- 9.2 Inborn Metabolic disorders and the eye

10. Strabismus

11. Neuro-ophthalmology

- 11.1 Ophthalmic manifestations of Brain tumors
- 11.2 Phthalmic manifestations of Vascular Diseases of the Brain
- 11.3 Migraine
- 11.4 Light and Accommodation reflex and its disorders
- 11.5 Visual pathway and its disorders

12. Oculoplastics

- 12.1 Basic oculoplastic surgery
- 12.2 Enucleation and Evisceration

13. Ocular Emergencies

14. Ocular Trauma

15. Tumors of Various Ocular and Orbital Tissues

16. Effects of High Altitude on Eye

17. Ocular Pathology

- 17.1 Ocular Histology
- 17.2 Ocular Microbiology
- 17.3 Ocular Immunology

18. Investigation in Ophthalmology

- 18.1 X-ray
- 18.2 CT
- 18.3 MRI
- 18.4 USG
- 18.5 FFA
- 18.6 Indosianine Green (ICG)
- 18.7 Electrophysiological Test

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MODEL QUESTION

Long Question:

1. Mention composition of Apex Body and discuss its role in prevention of blindness.
2. Enumerate the different layers of tears and glands involved in tear production. Discuss the tear drainage system.

Short Question:

Write Short Notes on:

1. Childhood blindness
2. Post graduate education in ophthalmology in Nepal.
3. Surgical space in the orbit and their applied anatomy.
4. "Alkali burn is more serious than acid burn". Justify it.