





# OPHTHALMIC TECHNIQUES HSSC-I

Time allowed: 2:35 Hours

Total Marks Sections B and C: 80

NOTE:- Answer any twenty five parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION – B (Marks 50)

Q. 2 Attempt any TWENTY FIVE parts. The answer to each part should not exceed 2 to 4 lines. ( 25 x 2 = 50 )

- (i) Draw a label diagram of a typical virus.
- (ii) Write general measures for control and prevention of eye diseases.
- (iii) Write a short note on 'Autoclave'.
- (iv) How immunity can be produced in a person, both naturally and artificially?
- (v) How to keep away from germs in O.T after wearing sterile gowns and gloves?
- (vi) Write modes of spread of disease causing microbes, especially to the eyes.
- (vii) Write the classification of bacteria.
- (viii) What are the factors favourable for growth of microbes in a suitable medium?
- (ix) What is colonization of bacteria, give examples?
- (x) How bacteria divide by 'Mitosis' and 'Binary fission'?
- (xi) What are commensals; give examples as regards to resp: & GI tract and Skin?
- (xii) What is the chemical composition of tears?
- (xiii) What are the causes of excessive lacrimation?
- (xiv) How glaucoma can cause disturbance of vision and field of vision?
- (xv) Write a note on use of laser in Myopia.
- (xvi) Define visual fields; what are its limits on all 4 sides.
- (xvii) What is digital tonometry and its benefit?
- (xviii) Write note on ciliary body and its 2 functions.
- (xix) How corneal ulcer can be stained for seeing by slit lamp?
- (xx) What are 3 sources of nutrition for cornea?
- (xxi) What is Direct and Indirect light reflex?
- (xxii) How to remove a small F.B embedded in the cornea?
- (xxiii) What is benefit of a skull X-ray in case of a small, penetrating, metallic F.B?
- (xxiv) What is role of doing syringing of the lachrymal passages?
- (xxv) How to treat a case of spillage of some chemical on the eye?
- (xxvi) How to treat drug reaction of some unknown origin to the eye?
- (xxvii) What will be the history and findings O/E in case of Retina detachment?
- (xxviii) What is the difference between 'normal' and 'pathological' flora of resp: & GI tracts and Skin?
- (xxix) Write names of 7 colours of light as they pass out of a prism, in their sequence?
- (xxx) What are UV rays; how should we protect our eyes from them?
- (xxxi) How to prevent or stop leakage of aqous after a small penetrating wound of cornea?

## SECTION – C (Marks 30)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 15 = 30)

- Q. 3 Draw and label Cx-section of the eye lid?
- Q. 4 What is Accommodation? Elaborate changes in Ciliary body and lens by drawing simple sketches.
- Q. 5 How 'partial' lens dislocation', can lead to diplopia? Make a sketch.