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Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

**OPHTHALMIC TECHNIQUES HSSC-I**  
**SECTION – A (Marks 20)**

Time allowed: 25 Minutes

**NOTE:- Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 25 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.**

**Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.**

- (i) Influenza is a disease caused by:  
A. Viruses      B. Bacteria      C. Coccie      D. Bascillie
- (ii) Bacteremia:  
A. occurs easily with diabetes      B. can start after a boil on skin  
C. can lead to septicaemia      D. All of these
- (iii) Spherical shape of eye ball is maintained by:  
A. Vitreous & Aqous      B. Sclera & Cornea      C. Retina      D. Both A & B
- (iv) Acute sudden loss of vision can be due to:  
A. Retinal detachment      B. Dislocation of lens  
C. Glaucoma      D. Both A & B
- (v) Which of the following is situated between Bowman's and Descemet's membranes?  
A. Stroma      B. Epithelium      C. Endothelium      D. All of these
- (vi) The lateral rectus moves the eye towards:  
A. Nasal side      B. Laterally      C. Up & outwards      D. Down
- (vii) First aid in a case of "Acute Congestive Glaucoma" is:  
A. Pilocarpine      B. Diamox      C. Mannitol      D. All
- (viii) First aid in case of "Acute conjunctivitis" is all except one:  
A. Pad & bandage      B. Antibiotics  
C. Frequent washing      D. Steroid drops & ointment
- (ix) In case of penetrating injuries to the eye ball, which one is **NOT** correct:  
A. Bleeding occur in ant. chamber: if iris is hit      B. Small metallic F.B can be left inside forever  
C. Wooden spikules are always infectious      D. Catract occurs if lens gets hit
- (x) In Indirect Ophthalmoscopy, the image is:  
A. Inverted, Real, Magnified      B. Erect, Real, Magnified  
C. Erect, Virtual, Magnified      D. None of these
- (xi) Which one of the following is **NOT** relevant to other three:  
A. Normal flora      B. Virulence      C. Incubation period      D. Trauma
- (xii) Acute conjunctivitis can be caused by:  
A. Pneumococcie      B. Streptococcie      C. Staphylococcie      D. All of these
- (xiii) Which one is correct as regards addition as "food-supplement" in edible oil:  
A. Vitamin A + D      B. Vitamin A only      C. Calcium      D. Vitamin D
- (xiv) Which one of the following is best to remove a small F.B embedded half thickness of cornea/conjunctiv?  
A. F.B Spud      B. Needle of insulin syringe  
C. Needle of IV set      D. Small forceps
- (xv) In case of Tear-Gas, or spillage of some chemical of unknown origin in the eye, it should be washed frequently with:  
A. Fresh water      B. Weak acid  
C. Weak alkali      D. Soap in all cases
- (xvi) The focus is formed in front of retina, in case of:  
A. Myopia      B. Hypermetropia      C. Astigmatism      D. Presbyopia
- (xvii) What to do if nothing is seen at 6 M on Snellen's chart?  
A. Reduce distance at 3 M      B. Counting fingers  
C. Hand movements      D. Projection of light rays
- (xviii) What is true about Pneumococcie?  
A. Pin-head shape      B. Pin-head size      C. Occur in clusters      D. Occur in pairs or chains
- (xix) Which is **NOT** suitable about growth of bacteria?  
A. Blood agar      B. Chocolate agar      C. Antibiotic agar      D. Nutrient agar
- (xx) The bacterial staining is done by?  
A. ZN staining      B. Gram's staining  
C. Nucleic & Spore staining      D. All of these

For Examiner's use only:

Total Marks:

20

Marks Obtained:



# 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) How will you instill eye drops?
- (ii) What are advantages of contact lens?
- (iii) What is diopter power of natural lens and cornea?
- (iv) What is the shape, use and how to identify a convex lens?
- (v) What is conjunctiva? Write its functions.
- (vi) Define Accommodation?
- (vii) What is Tonometry? What instruments are used for it?
- (viii) What is "Stye"? Why it occurs?
- (ix) Define "Emmetropia"? What is total dioptric power of an emmetropic eye?
- (x) What is 'Confrontation method' for field of vision?
- (xi) What is intraocular pressure range in glaucoma and in hypotony?
- (xii) Write names and functions of all Extra-ocular muscles?
- (xiii) Write about shape, location and nerve supply of 'Lachrymal gland'?
- (xiv) Define 'Aphakia'? How is it treated now a days?
- (xv) What is 'Pannus'? How it affects vision?
- (xvi) Write names of important parts at retina.
- (xvii) Define 'Visual Acuity'. What is role of 'pin-hole'?
- (xviii) Define 'Myopia'. How is it corrected?
- (xix) What are sign and symptoms of 'Acute conjunctivitis'?
- (xx) What is 'Hypopyon'? What are its causes?
- (xxi) What is 'Exophthalmos'? What can cause it?
- (xxii) Enumerate the causes of blindness in Pakistan?
- (xxiii) How to remove a foreign body penetrating half thickness of Cornea?
- (xxiv) What is cataract? How is it treated now a days?
- (xxv) Write methods of "drug delivery" to the eye?
- (xxvi) Write about composition of tear-film.
- (xxvii) Write about school health education about eye care?
- (xxviii) What is Sterilization? What is the best method used?
- (xxix) Write names of common bacteria affecting the eye?
- (xxx) What are different 'Media' used for bacterial culture?
- (xxxi) What do you mean by the terms 'Endotoxins' and 'Exotoxins'?

## SECTION – C (Marks 30)

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

(2 x 15 = 30)

- Q. 3 Draw and label the micro structure of 'Cornea', along with a note on its functions and Nutrition?
- Q. 4 Define all the types of "Refractive Errors"? Draw a simple diagram of each?
- Q. 5 What is 'Accommodation'? What are its 3 parts? How are they carried out?