

**B.Sc. Allied Health Sciences Second Year (Semester-IV)**

**October - 2015 Examination**

**B.Sc. Ophthalmic Technology (OPH)**

**Paper – I**

**[ Max. Marks : 80]**

**(Ocular Pathology , Ocular Pharmacy & Pharmacology)**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

*(Use separate answer booklet for Section A & B)*

**Section – A**

**Ocular Pathology (40 Marks)**

**Q.P Code : AHS-130**

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. What is tissue processing. Discuss the steps in tissue processing.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

2. Discuss the method of making a good peripheral smear.
3. Describe tests for detection of proteins in urine.
4. Describe briefly methods of hemoglobin estimation.
5. Western's pipette.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

6. Morphology of monocyte.
7. Benedict's test.
8. List any three physical characters of urine and give their normal values.
9. Name three anticoagulants used in blood collection.
10. Write the normal values for each (a) Platelet count (b) absolute eosinophil count (c) total WBC count in adults.
11. Bleeding time.

**Section – B**

**Ocular Pharmacy & Pharmacology (40 Marks)**

**Q.P Code : AHS-131**

*(Use separate answer booklet for Section-B)*

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Classify fluoroquinolones. Describe the mechanism of action, adverse effects and uses of ciprofloxacin.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

2. Ocular irrigating solutions.
3. Miotics.
4. Explain different periocular routes of drug administration with examples.
5. Explain mechanism of action, ophthalmic uses and adverse effects of diclofenac.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

6. Enlist three mydriatics.
7. Mention three anti-viral drugs.
8. Mention three local anesthetic drugs.
9. Timolol eye drops.
10. Latanoprost.
11. Artificial eye drops.

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**Time : 2.30 Hrs.**

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**[Max. Marks : 80]**

**Paper - II**

**Refraction Investigative Ophthalmology**

**Q.P Code : AHS-132**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any two)**

**2 X 10 = 20 Marks**

1. What is Binocular vision and three steps of binocular vision .
2. Name all the extra ocular muscles and their actions.
3. Describe clinical features and management of hypermetropia.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

4. Define astigmatism and how to correct.
5. Principles of Retinoscopy.
6. Aphakia – clinical feature and treatment.
7. Nystagmus.
8. Mechanism of accommodation.
9. Subjective refraction.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

10. Maddy rod.
11. Three uses of synoptophone.
12. Three types of amblyopia.
13. Three types of ARC.
14. 30's in managements squint.
15. Causes of early Presbyopia.
16. Three causes of Diplopia.
17. What is Retinoscopy.
18. Three signs of paralytic squint.
19. Three types of Head Posture.

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**Paper - III**

**Ophthalmic Instruments and appliances**

**Q.P Code : AHS-133**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any two)**

**2 X 10 = 20 Marks**

1. Describe in detail perimeter manual and automated and their uses.
2. What are the types of illumination used in slit lamp and their clinical applications.
3. What are the instruments used in corned examination and add a note on each.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

4. Contrast sensitivity.
5. Orthoptic instruments (Heptoscope)
6. Pachometers.
7. Glare acuity tests.
8. Types of non-contact thermometer.
9. Specular microscope.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

7. Three tests for colour vision.
8. Three types of tonometer.
9. Three types of exophthalmometers.
10. Three uses of dark adoptometer.
11. Three types of glare acuity test.
12. Three types of non- contact tonometers.
13. Three uses of pachometers.
14. Three types of colour blindness.
15. Principals of auto retractometers.
16. Uses of placidis disc.

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