

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

B.Sc. Ophthalmic Technology (OPH)

February / March -2018 Examination

Time : 2.30 Hrs.

[Max. Marks : 80]

PAPER –I

Ocular Pathology, Ocular Pharmacy and 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

(Use separate answer booklet for Section A & B)

LONG ESSAY

1 X 10 = 10 Marks

1. List out the tumors of eye lid. Describe macroscopic and microscopic features of malignant melanoma.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

2. Clotting time.
3. Glaucoma.
4. PT and APTT.
5. Microcytic hypochromic anemia – lab diagnosis.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Neutrophilia.
7. List out intraocular tumors.
8. Retinal detachment.
9. Sty.
10. Hematuria mention four causes.
11. Glycosuria.

Section – B

Ocular Pharmacy and Pharmacology (40 Marks)

Q.P Code: AHS-131

(Use separate answer booklets for section –B)

LONG ESSAY

1 X 10 = 10 Marks

1. Classify the ocular routes of drug administration. Explain the different periocular routes with examples.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

2. Name five mydriatics. Explain their mechanism of action and mention two ophthalmic uses.
3. Explain the mechanism of action, ophthalmic uses and adverse effects of Ciprofloxacin.
4. Explain the mechanism of action, ophthalmic uses and adverse effects of flurbiprofen.
5. Mention three ocular techniques of administration of Lignocaine with one example for each. Write the mechanism of action of Lignocaine.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Mention six drugs belonging to different categories used in the treatment of glaucoma.
7. Mention three drugs used in the treatment of cytomegalovirus retinitis.
8. Mention three drugs used in the treatment of fungal keratitis. Write the mechanism of action of any one.
9. Mention three ophthalmic dyes and write one ophthalmic use for each.
10. Mention three constituents of contact lens cleaning solution. Write one property of each constituent.
11. Mention three ocular irrigating solutions and write one indication for each.

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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. Define Astigmatism. Describe the types, clinical features and treatment modalities for astigmatism.
2. Objective retinoscopy.
3. Origin, insertion, nerve supply and actions of extra-ocular muscles.

SHORT ESSAY

6 X 5 = 30 Marks

4. Theories of convergence.
5. Clinical features of Aphakia and management.
6. Jackson cylinder.
7. Contact lenses in Keratoconus.
8. Differences between paralytic and non-paralytic strabismus.
9. Maddox rod interpretation.

SHORT ANSWERS

10 X 3 = 30 Marks

10. Significance of head posture.
11. Methods of measurement of AC/A ratio.
12. Use of pilocarpine and atropine in Amblyopia.
13. What are the post op refractive errors seen after cataract surgery?
14. Disorders of accommodation.
15. What is far point, near point and range of accommodation?
16. Types of nystagmus.
17. How to verify refraction?
18. Assessment of visual acuity in less than 5 year old child.
19. Growth of eye.

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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 the optics of direct ophthalmoscopy. Write on the characteristics of the image formed.
2. Enumerate different types of illumination in slit lamp.
3. Enumerate different methods of testing field of vision. Write in detail glaucomatous field defects.

SHORT ESSAY

6 X 5 = 30 Marks

4. Various colour vision tests.
5. Clinical uses of keratometer.
6. Types of contrast sensitivity.
7. Wide-field specular microscopy.
8. Scleral indentation in indirect ophthalmoscopy.
9. Placido's disc keratoscopy.

SHORT ANSWERS

10 X 3 = 30 Marks

10. Inbert-ficks law.
11. Blind spot.
12. + 90 D.
13. Three differences between direct and indirect ophthalmoscopy.
14. Three differences between direct and indirect Gonio lens.
15. Exophthalmometry.
16. Vistech chart.
17. Pachymetry.
18. Non mydriactic fundus camera.
19. Three uses of automated perimeter.

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