

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

August – 2018 Examination

B.Sc. Ophthalmic Technology (OPH)

Time: 2.30 Hrs.

Paper – I

[Max. Marks: 80]

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 : OPH401CC

LONG ESSAY

1 X 10 = 10 Marks

1. Write a note on histology of cornea. Discuss about pathology of various corneal lesion.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

2. Diabetic retinopathy.
3. Basal cell carcinoma of eye lid.
4. Retinoblastoma.
5. Optic nerve Glioma.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Define leukemia. Mention the types of leukemia.
7. Collection methods of urine.
8. Discuss various inflammatory lesions of eyelid.
9. Descent's membrane.
10. Corneal dystrophies.
11. Mention three causes of thrombocytopenia.

Section – B

Ocular Pharmacy and Pharmacology (40 Marks)

Q.P Code : OPH402CC

(Use separate answer booklet for Section-B)

LONG ESSAY

1 X 10 = 10 Marks

1. Classify aminoglycosides. Describe the mechanism of action, adverse effects and uses of gentamicin.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

2. Corticosteroids – five uses and five adverse effects.
3. Mention ocular irrigating solution with their uses and adverse effects.
4. Explain cycloplegia. Mention uses and adverse effects of drugs causing it.
5. Explain five ocular route of drug administration with example.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Enlist three mydriatics.
7. Mention three adrenergic drugs used in eye conditions.
8. Mention three uses of methyl cellulose eye drops.
9. Mention two miotics and give rationale for use in glaucoma.
10. Mention three drugs used in ocular fungal infection.
11. Mention one example each of lubricants, antiseptic and contact lens solution.

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B.Sc. Ophthalmic Technology (OPH)

Time : 3 Hrs.

Paper - II

[Max. Marks : 100]

Refraction investigative Ophthalmology

Q.P Code : OPH403CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Write about clinical features, diagnosis and management of Keratoconus.
2. Write about assessment of visual acuity in pediatric age group.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Write about abnormal head posture and its significance.
4. Define AC/A ratio and write a note on methods to measure it.
5. Define presbyopia and comment on the correction of presbyopia.
6. Write a short note on the principle of retinoscopy.
7. Write a note on ductions and versions.
8. Write a note on ARC.
9. Write a note on measurement of the angle of squint.
10. Describe the methodology of subjective refraction.
11. Define astigmatism and name the different type of astigmatism.
12. Correction of Aphakia.
13. Write a note on Hess screening and its interpretations.
14. Define Amblyopia and write a note on its management.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Jackson cross cylinder.
16. Write three differences between a paralytic and a non-paralytic squint.
17. Maddox rod.
18. Write about alternate cover test.
19. Accommodation spasm.
20. Define amplitude of accommodation.
21. Describe Neutral point in retinoscopy.
22. Importance of visual acuity with pinhole.
23. Write a note on Cycloplegics.
24. Congenital nystagmus.
25. Orthoptic exercises in convergence insufficiency.
26. Prism bar cover test.

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B.Sc. Ophthalmic Technology (OPH)

Time : 3 Hrs.

Paper - III

[Max. Marks : 100]

Ophthalmic Instruments and Appliances

Q.P Code : OPH404CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define tonometry. Mention the basic types of tonometers and write about principle and technique.
2. Write about parts of slit lamp, its optics and methods of illumination using slit lamp.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Colour vision tests.
4. Optics of direct Ophthalmoscope.
5. Write in brief about manual perimetry.
6. Principles of autorefractometer.
7. Optics of indirect ophthalmoscopy.
8. Principle of Keratometer, two types of Keratometer and method of doing.
9. Direct versus indirect ophthalmoscopy.
10. Fundus photography.
11. Write in brief about placido disc.
12. Advantage and disadvantage of different diopetre lenses in indirect ophthalmoscopy.
13. Principle of lensometer.
14. Field defects in primary open angle glaucoma.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Types of Enophthalmometer.
16. What is nodal point of eye.
17. Write about total internal reflection with diagram.
18. Different lenses used in biomicroscopic examination of fundus.
19. Name common disease of optic disc which can be diagnosed by Direct Ophthalmoscopy.
20. Different filters used in slit lamp examination.
21. Pin-hole test.
22. Explain young Helmholtz theory of colour vision.
23. Ocular Rigidity.
24. Describe various parts of normal Humphrey Visual Field analysis report.
25. Scotoma.
26. Non contact Tonometer.