

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

February 2019 Examination

B.Sc. Ophthalmic Technology

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 (50 Marks)

Q.P Code : J4265

LONG ESSAY

1 x 10 = 10 marks

1. Write normal histology of Retina .Discuss aetiology , pathogenesis and pathology of Retinoblastoma.

SHORT ESSAY (Answer any Three)

3 x 5 = 15 marks

2. Infectious lesions of Eyelid .
3. Choroidal Melanoma.
4. Optic Nerve Tumors
5. Basal cell Carcinoma

SHORT ANSWERS (Answer any five)

5 x 3 = 15 marks

6. Acute inflammation .
7. Three causes for Proteinuria .
8. Three causes for Normocytic Normochromic Anaemia .
9. Three causes Eosinophilia.
10. Three factors affecting ocular wound healing .
11. Conjunctivitis .

Section – B

Ocular Pharmacy & Pharmacology (50 Marks)

Q.P Code : J4266

(Use separate answer booklet for Section-B)

LONG ESSAY

1 x 10 = 10 marks

1. Classify fluoroquinolones. Explain mechanism of action, uses and adverse effects of ciprofloxacin (4+2+2+2)

SHORT ESSAY (Answer any three)

3 x 5 = 15 marks

2. Explain advantages and disadvantages of any **two** periocular route of administration (2.5+2.5)
3. Explain mechanism of action of **five** drugs from different category used in the treatment of glaucoma (5)
4. Explain mechanism of action, ocular uses and adverse effects of ibuprofen (2+2+1)
5. Explain cycloplegia. Mention drugs causing it and write their uses (2+2+1)

SHORT ANSWER (Answer any five)

5 x 3 = 15 marks

6. Mention **three** rewetting agents used in contact lens solution
7. Mention **three** ocular dyes and write **three** uses
8. Explain mechanism of action and write **one** use of interferon alpha
9. Explain mechanism of action and write **two** ocular uses of fluconazole
10. Mention **three** ocular preservatives
11. Explain mechanism of action and **one** ocular use and **one** adverse effect of ganciclovir

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

February 2019 Examination

B.Sc. Ophthalmic Technology

Time : 3 Hrs.

[Max. Marks : 100]

Paper-III

Ophthalmic Instruments and Appliances

Q.P Code : J4280

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 x 10=20 Marks

1. Explain the optics of manual lensometer. Explain the procedure of spectacle lens power measurement with this instrument.
2. Discuss the optics of Indirect Ophthalmoscopy.

SHORT ESSAY (Answer any 10 questions)

10 x 5 = 50 Marks

3. Differentiate between Manual kinetic perimetry and Automated static perimetry.
4. Discuss about gray scale, total deviation and pattern deviation in HVF report.
5. Discuss about the different types of exophthalmometer.
6. Mention the differences between static perimetry and kinetic perimetry.
7. Colour vision tests.
8. Describe the optics of direct ophthalmoscope and its uses.
9. What are the instruments used in Corneal examination and add a note on each?
10. Describe the optics, advantages and disadvantages of fundus camera.
11. Write briefly about Maddox wing and its uses.
12. Explain the principle of tonometry. Name the different types of tonometers.
13. Hess screen.
14. Procedure of direct ophthalmoscopy.

SHORT ANSWERS (Answer any 10 questions)

10 x 3 = 30 Marks

15. What are the various types of Exophthalmometer
16. Vertex distance of spectacles
17. Mention the uses of direct ophthalmoscope
18. Photo slit lamp
19. Mention any three uses of pachometers
20. Mention any three glare acuity test
21. Any three types of non-contact tonometer
22. What are the types of bifocal lens designs?
23. Optics of autorefractometer
24. Mention any three causes of proptosis
25. Three types of glare acuity tests
26. Retroillumination in slit lamp.