SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

August – 2018 Examination

B.Sc. Ophthalmic Technology (OPH)

Time: 3 Hrs. **Paper – II** **[Max. Marks: 100]**

Ocular Microbiology & Ocular Biochemistry

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 Microbiology (50 Marks)

Q.P Code : OPH303CC

LONG ESSAY **2 X 10 = 20 Marks**

1. Enlist the various infections of the eye and describe the micro organisms associated with each one of the their infections.
2. Describe the various sample collection techniques associated with the infections of the eye.

SHORT ESSAY (**Answer any three)** **3 X 5 = 15 Marks**

3. Staphylococcal infection of the eye: pathogenesis and laboratory diagnosis.
4. Discuss the various viruses causing infections of the eye.
5. Etiology and laboratory diagnosis of Bacterial keratitis.
6. Gonococcal infection of the eye: Mode of transmission, clinical features and lab diagnosis.
7. Describe keratitis.

SHORT ANSWERS (Answer any five) **5 X 3 = 15 Marks**

8. List three parasites causing infections of the eye.
9. Germ tube test.
10 List three free living amoeba.
11. List three agents causing blepharitis.
12. List three agents causing endophthalmitis.
13. Draw a neat labeled diagram of fusarium species.
14. Draw a neat caballed diagram of aspergillus species.

Section – B

Ocular Biochemistry (50 Marks)

Q.P Code : OPH304CC

(Use separate answer booklet for Section-B)

LONG ESSAY **2 X 10 = 20 Marks**

1. Explain the biochemical composition and functions of cornea?
2. Write the structure, composition and functions of vitreous humour?

SHORT ESSAY (**Answer any three)** **3 X 5 = 15 Marks**

3. Rhodopsin cycle.
4. Describe the composition and function of tear film.
5. Describe the structure and composition of retina.
6. Function of vitamin C.
7. Describe the structure and functions of aqueous humour.

SHORT ANSWERS (Answer any five) **5 X 3 = 15 Marks**

8. Muscle protein function.
9. Mucoid layer.
10 Cataract formation.
11. Glucose utilization by lens.
12. Nutrient uptake by cornea.
13 Biogenic amines.
14. Functions of vitamin E.

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