Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Optometry Degree Examination – Aug 2013

Time: Three Hours Max. Marks: 100 Marks

Cevs & Optometric Instruments

Q.P. Code : 1633

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Four) 4 x 10 = 40 Marks

1. What is Gonioscope? Explain it on the basis of optics, types and indication.
2. What is Ultrasonography? What are the indications, and the physics involved in ultrasonography?
3. Explain autorefractometer. its uses, principle, advantages & disadvantages
4. What is visual acuity? What are the differences between Snellen & Bailey Lovie chart? Explain how you are going to construct a logMAR chart
5. What is History taking? What are the benefits? How you are going to take history in patient complaining of Headache?

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

6. What are the two types of scales in topography. ?
7. Describe amsler chart? What are the different types available?
8. What are the different test plates available in Ishihara colour vision testing?
9. Write about the reliability indices in the single field analysis print out?

10. Procedure & uses of Electroretinogram
11. Optical principle of fundus biomicroscope. Mention its uses
12. Different slit lamp illumination techniques
13. Instrumentation & Optics of retinoscope
14. What is 3-in-one print out in Humphery field analyzer?

SHORT ANSWERS 10 x 2 = 20 Marks

15. ETDRS chart, give Example
16. Indication of VEP
17. 90D lenses
18. Define visual acuity. Example
19. The accessories of slit lamp
20. Advantages of NCT
21. A scan
22. Optometer principle
23. What are the different types of keratometer?
24. Mention the phases of Fluorescein angiography

*****

Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Optometry Degree Examination – Aug 2013

Time: 3 Hours Max. Marks: 50 Marks

Microbiology, Pathology – Section A

Q.P. Code : 1634

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1634 and 1635 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any two) 2 x 10 = 20 Marks

1. Write methods of cultivation of bacteria in detail
2. Write about clinical features and management of inflammation.
3. Pathology of cataract

SHORT ESSAYS (Answer any four) 4 x 5 = 20 Marks

4. Congenital toxoplasmosis
5. Write note on ocular manifestation of HIV
6. Write note on acanthamoeba keratitis
7. Explain any two circulatory disturbances
8. Short note on orbital cellulitis

SHORT ANSWERS 5 x 2 = 10 Marks

9. Short note on glioma
10. Name any two bacterial infection of eye
11. Define thrombosis
12. What is embolism
13. Two names of parasites causing eye infection

*****

Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Optometry Degree Examination – Aug 2013

Time: 3 Hours Max. Marks: 50 Marks

Pharmacology – Section B

Q.P. Code : 1635

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1634 and 1635 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any two) 2 x 10 = 20 Marks

1. Discuss the factors that modify the action of drugs
2. Classify corticosteroids. Describe the pharmacological effects of glucocorticoids and mineralocorticoids.
3. Where are the blood-retina barrier in the eye? Describe two substances that can be used for angiography detailing their excitation and emission spectra and when they are preferred

SHORT ESSAYS (Answer any four) 4 x 5 = 20 Marks

4. Discuss anti-diabetic drugs
5. Describe the sources of drugs
6. General and ocular complications of corticosteroid therapy
7. Different preparations of insulin
8. Advantages of blood-aqueous and blood retinal barrier work

SHORT ANSWERS 5 x 2 = 10 Marks

9. Enema
10. Blood brain barrier
11. Enzyme induction
12. Arthus reaction
13. Name the enzymes used in surgery along with the procedure

*****