Time : 2.30 Hrs.   [Max. Marks : 80]

Subject: Optometric Optics and Dispensing Optics

Q.P Code : J6720

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

LONG ESSAY   2 X 10 = 20 Marks

1. Describe Frame parts and types in detail.

2. Explain in detail about the use of prisms in Ophthalmology.

SHORT ESSAY (Answer any 6)   6 X 5 = 30 Marks

3. Discuss Jackson cross cylinder.

4. Give the applications of Interference.

5. Describe Total Internal Reflection (TIR) in detail.

6. Explain about Presbyopia.

7. Write a short note on Binocular refraction.

8. Explain spherical aberrations in detail.

9. Describe Sturm's conoid.

10. Write short notes on Laws of reflection and refraction.

SHORT ANSWERS (Answer any 10)   10 X 3 = 30 Marks

11. Write about irregular astigmatism.

12. Write about Pupillometer

13. State laws of Reflection.

14. Define and write the uses of a pin hole.

15. Describe Frame selection criteria for high minus prescription

16. Define LASER and give its characteristics.

17. State uses of cylindrical lenses.

18. Give the list of properties of light.

19. Describe Toric lenses.

20. Write about Chromatic aberrations

21. Explain Datum system

22. Give the list of properties of light.

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Time : 2.30 Hrs.

[Max. Marks : 80]

Subject: Contact Lens and Occupational Optometry

Q.P Code : J6730

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

LONG ESSAY   2 X 10 = 20 Marks

1. Classification of Contact lens.

2. Explain the first aid methods pertaining to contact lens emergencies

SHORT ESSAY (Answer any 6)   6 X 5 = 30 Marks

3. Indication of cosmetic soft lenses.

4. Disadvantages and Advantages of PMMA hard contact lenses.

5. Describe the Fitting technique of Spherical soft contact lens

6. List Contact lens materials.

7. Describe Bandage Contact lens.

8. Describe CLARE in brief.

9. Elaborate Schirmers test in detail.

10. Briefly mention the contact lens used in keratoconus

SHORT ANSWERS (Answer any 10)   10 X 3 = 30 Marks

11. Define Focons and filcons.

12. Elaborate Contact lens in Aphakia.

13. Push up test.

14. What are the indications for prosthetic contact lenses.

15. Name Corneal layers

16. State the benefits of contact lens over spectacles in athletes.

17. State different methods of myopia control.

18. Explain Lens Edge flare.

19. List advantages of automated keratometer.

20. List the difficulties in Removing RGP lens.

21. Tear lens system.

22. Describe TBUT test.

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Time : 2.30 Hrs.   [Max. Marks : 80]

Subject: Systemic Diseases, Management of OT

Q.P Code : J6740

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

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

1. Elaborate Thyroid eye disease in detail.

2. Describe Malaria in detail.

SHORT ESSAY (Answer any 6)   **6 X 5 = 30 Marks**

3.   Classify Cancer.

4.   Write the complications of Thyroid eye disease.

5.   Write a short on Leprosy.

6.   Write the causes of leprosy.

7.   What are the measures taken to overcome malnutrition?

8.   Effects of Hypertension.

9.   Describe the stages of diabetic retinopathy.

10.   Management of Vitamin A deficiency.

SHORT ANSWERS (Answer any 10)   **10 X 3 = 30 Marks**

11. Define Connective tissue disorder

12. Define Ocular TB and its types.

13. Write a note on Contact lens equipments.

14. Effects of malnutrition.

15. What are the effects of hypertension on eye?

16. Causes of helminthiasis.

17. Write a short note on tropical medical illness.

18. Write the management of malnutrition.

19. Write a note on immunology.

20. Define Blood Pressure.

21. Describe Hyper thyroidism.

22. Maintenance of various Optometric surgical instruments in OT.

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