

# 2010 Scheme

Q.P. Code: 302013

Reg. No.:.....

## Third Year B.Sc Optometry Degree Supplementary Examinations January 2023

### Dispensing Optics, Mechanical Optics, Contact Lens and Low Vision Aids

Time: 3 hrs

Max marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

#### Essays

(2x20=40)

1. Discuss the various faults seen on the lens surface during manufacturing of lenses.
2. Discuss in detail on the soft contact lens fitting philosophies

#### Short notes

(5x5=25)

3. Types of pliers used in frame manipulations
4. Tests done during contact lens users follow up visit
5. Advantages and disadvantages of half eyed spectacles
6. List the characteristics of flat, steep and optimal fit in contact lenses
7. How will you select the appropriate low vision aid

#### Answer briefly

(10x3=30)

8. CAAS rule
9. Components of low vision history
10. Types of cosmetic contact lenses
11. Various methods of assessing the contact lens fit
12. Indications for prosthetic shell fitting
13. Facial measurements and choice of frames
14. Advantages and disadvantages of chemical disinfection
15. Effects of lens decentration
16. WHO classification of visual impairment
17. What is Notex. List its uses.

#### One word answer

(5x1= 5)

- 18..... is the instrument used to measure vertex distance
19. The abbe value of crown glass is .....
- 20..... water content lenses are indicated in dry eyes
21. The basic cellulose material is extracted from .....
- 22..... is the commonest cause of low vision

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