B.Sc. OPTOMETRY

THIRD YEAR

PAPER IV – DISPENSING OPTICS

Q.P. Code: 806064

Time: Three Hours   **Maximum : 100 Marks**

Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. Describe spectacle lens manufacturing.
2. Fitting of progressive lenses.
3. Special purpose frames.

II. Write notes on: **(8 x 5 = 40)**

1. Polarizing lenses.
2. Advantages and disadvantages of progressive lenses.
3. Lenses used for high plus prescriptions.
4. Selections of frames and lens for high minus powers.
5. Vertex distance and its effects.
6. Pliers.
7. Symmetrical and asymmetrical progressive designs.
8. ANSI Standards for single vision lenses.

III. Short answers on: **(10 x 3 = 30)**

1. Contrast enhancing filters.
2. Advantages of high index lenses.
3. Temple construction.
4. Abbe value.
5. Segment height in bifocals.
6. Optical density.
7. Fused bifocals.
8. Transpose -7.50ds/+3.50 dc x 110 into other cyl and give its spherical equivalent.
9. Difference between hard design and soft design in PAL's.
10. Air blower.

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