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Sub. Code: 2743

[AHS 0321]

## MARCH 2021

(AUGUST 2020 EXAM SESSION) B.OPTOM

SECOND YEAR (Regulation 2018-2019)
PAPER III – OPTOMETRIC INSTRUMENTS AND OPTOMETRIC OPTICS I

Q.P. Code: 802743

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on:  $(3 \times 10 = 30)$ 

Define Binocular vision. Give its prerequisite, advantages and test to asses it.

- What is the principal of visual acuity testing? Describe the Snellen chart and Bailey – lovie chart.
- Describe the different illumination techniques used in a slitlamp examination.

II. Write notes on:  $(8 \times 5 = 40)$ 

- Trial box and its contents.
- Brightness acuity Tester, instrumentation and its uses.
- Goldman applanation tonomete.
- Differences between Direct and indirect Ophthalmoscope.
- Toric transposition: -1.00DS/-2.00DCX90 BC: +6.00D.
- Explain the parts of a frame with a neat labelled diagram.
- Difference between spherical and cylindrical lenses.
- Explain the steps of lens glazing.

## III. Short answers on:

 $(10 \times 3 = 30)$ 

- Draw diagram of different forms of convex lens.
- Interpret: 52 14845.
- List three faults seen during the surfacing.
- Calculate the prismatic effect for the RE -3.00 DS with a decentration of 3 mm inwards.
- Give the RI for the following lens material: crown glass, polycarbonate and CR
- What is Arden's ratio? What is its normal value.
- Give three uses of keratometry.
- 8. Define fixation loss and false negative.
- List three non-optical devices.
- Differentiate between anopia and anomaly. Name any one test that screens for congenital colour defect.

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