

2023
AUGUST

Optometric Optics and LVA

Full Marks - 80

Time - 3 Hours

The figures in the margin indicate full marks for the questions
Answer all questions

- 1) Fill in the blanks: [1X10=10]
- a) The first step in the development of binocular visions is _____.
 - b) Suppression is a condition in which the image is _____.
 - c) The yoke muscle of a right medial rectus is _____.
 - d) The yoke muscle of left superior rectus is _____.
 - e) _____ is the movement of both eyes to the left.
 - f) _____ are the muscles which have a similar primary action in the same eye.
 - g) There are _____ cardinal positions of gaze
 - h) Sherrington's law states that _____.
 - i) _____ supplies the inferior oblique muscle.
 - j) In _____ squint the angle of deviation remains constant in all directions of gaze.
- 2) State TRUE or FALSE: [1X10=10]
- a) According to WHO a person who is legally blind have a visual field of more than 20 degrees.
 - b) LOG MAR chart is the best chart to assess the visual acuity of low vision patient
 - c) Curtains are used as a non-optical low vision device.
- 3) Write short note on (any six): [5X6=30]
- a) Hirschberg corneal reflex test
 - b) W4DT
 - c) Depth of focus and depth of field
 - d) Maddox rod test
 - e) Yoke muscle
 - f) What are the steps of clinical assessment of low vision?
 - g) Refraction of low vision patients
 - h) What is magnification? What are the types of magnification? Give examples
 - i) A low vision person becomes isolated socially.
 - j) Umbrella is a glare control device.
- 4) Answer any three of the following: [10X3=30]
- a) Explain in detail about cover test.
 - b) Explain about synoptophore and its uses.
 - c) Explain in details clinical assessment of low vision in children
 - d) What is the WHO definition of low vision? What are the changes that occur in a low vision patient, what are the roles of a counsellor?

Turn over