

### III-B.OPTOM.SEM-V: WINTER-2017

#### SUBJECT : BINOCULAR VISION

**Note : Section – A** is given on a **SEPARATE** sheet and has to be answered on the same sheet. This should be completed within the first **30 minutes** of starting of the examination. This sheet with Section A only will be collected by the Supervisor.

Seat No. : \_\_\_\_\_ W-2017-3480      Date : 28-11-2017

#### SECTION – A

**Q.1 A) Fill in the blanks:** **[10]**

- 1) The angle formed between the central pupillary line and visual axis is \_\_\_\_\_.
- 2) The most anterior inserted extra-ocular muscle is \_\_\_\_\_.
- 3) \_\_\_\_\_ can be assessed clinically using flippers.
- 4) High uncorrected astigmatism can lead to \_\_\_\_\_ type of amblyopia.
- 5) Bar reader is based on \_\_\_\_\_ principle.
- 6) In Titmus stereo test, the rows of animals give stereo-acuity of \_\_\_\_\_.
- 7) \_\_\_\_\_ prism is placed to neutralize exo-deviation.
- 8) \_\_\_\_\_ is the example of resolution acuity test.
- 9) Cross pattern with central gap on Bagolini striated glasses indicates \_\_\_\_\_.
- 10) Inverse occlusion is given in patients with \_\_\_\_\_.

**B) State True or False:** **[10]**

- 1) Hoffstetters' formula is used to calculate near point of convergence.
- 2) Primary action of Inferior oblique muscle is Intorsion.
- 3) Neutral density filter test is used to differentiate type of ARC.
- 4) Field of fixation is area in which central fixation is possible by moving both eyes and head.
- 5) The simultaneous, synchronous, conjugate binocular eye movements are called as Versions.
- 6) The cover – uncover test is done to test phorias.
- 7) Catford drum is used to measure angle of squint in infants.
- 8) Eccentric fixation can be diagnosed with Visuoscope.
- 9) Stereo acuity tests are based on haploscopic principle.
- 10) Diploscope is given as an exercise in patients with suppression.

**Signature of the Invigilator**

**Total Marks Obtained :** \_\_\_\_\_

**Signature of the Examiner**

**III -B.OPTOM. SEM – V : WINTER - 2017**

**SUBJECT : BINOCULAR VISION**

Day : **Tuesday**  
Date : **28/11/2017**

Time : **10.00 AM TO 01.00 PM**

Max. Marks : 70

**W-2017-3480**

**N.B.:**

- 1) There are **THREE** Sections as:  
Section A = Objective type questions = 20 marks  
Section B = Long questions = 20 marks  
Section C = Short questions = 30 marks
- 2) Section A is given on a separate and has to be answered on the same sheet. This sheet should be completed within the first 30 minutes of starting of the examination. This sheet with Section A only will be collected by the Supervisor.
- 3) Section B has 3 long questions and **ANY TWO** questions have to be answered on the separate answer sheet.
- 4) Section C has short questions and **ANY FIVE** questions have to be answered on the separate answer sheet.
- 5) Draw neat labeled diagrams **WHEREVER** necessary.

**SECTION – B**

**Q.2** Attempt **ANY TWO** of the following: **[20]**

- a) What are grades of Binocular Single Vision? What are the tests to assess Binocular Single Vision?
- b) Write the flow chart for the treatment of Amblyopia with eccentric fixation.
- c) Explain in detail anomalies of accommodation with its management.

**SECTION – C**

**Q.3** Attempt **ANY FIVE** of the following: **[30]**

- a) Tabulate all extra-ocular muscles with their origin, insertion, length and actions.
- b) Four prism base out test.
- c) Write the investigations to diagnose Facultative suppression.
- d) Compare Versions and Vergence.
- e) Write about:
  - i) Hering's law and its significance.
  - ii) Physiological diplopia and its significance.
- f) What is ARC? Explain its types with diagram.

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