

**B.Sc. (Hons.) IN OPTOMETRY AND
OPHTHALMIC TECHNIQUES (BSCHOT)**

Term-End Examination

December, 2013

BOS-012 : LOW VISION

Time : 3 Hours

Maximum Marks : 70

SECTION - A

Attempt **any three** questions. Each question carries **10** marks : **10x3=30**

1. Define low vision. What is the aim of low vision services ? Write the key points of low vision case history and list the various investigations along with the instruments by which it is carried out ?
2. Define magnification. How is magnification calculated for distant and near devices. Calculate the distant and near magnification needed by the patient. If his distant visual acuity is 20/600 and the near visual acuity target is 20/60.
3. Explain the optics of a hand magnifier. What are the main advantages and disadvantages of a hand magnifier ? What will be the magnification given by a hand magnifier whose power is +40.D and the object is placed 25 cms from the eye.

4. Write down the problems and management of the following disorders from the view of low vision assessment and prescription.
- (a) ARMD - Age related macular degeneration.
 - (b) Albinism.

SECTION - B

5. Write short note on **any eight** of the following. Each carries five marks : 5x8=40
- (a) Telescopes.
 - (b) NON optical devices.
 - (c) Stand magnifiers.
 - (d) Spectacle magnifiers.
 - (e) Electroptical devices.
 - (f) Ocular disorders leading to peripheral field loss and central field loss.
 - (g) Common methods of improving contrast.
 - (h) Low vision rehabilitation.
 - (i) Basic equipment required for a low vision clinic set up.
 - (j) Instructions given to a patient dispensed with spectacle magnifier of +12 OD for near.
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