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B.Sc. Optometry (Semester – 4th)
OPHTHALMIC LENS & DISPENSING OPTICS
Subject Code: BOPTS1404
Paper ID: 20131819

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Name the materials used for spectacle lenses?
- b. Write the two characteristics of lenses?
- c. Write the used of polycarbonate in most industrial protective eyewear?
- d. Write the name of types of lens material?
- e. Define fresnel lenses and write it's uses?
- f. How to select the spectacle frame and write it's material?
- g. Define ophthalmic lens coating and it's type?
- h. Write the advantage and disadvantage of progressive lenses?
- i. Name the types of impact resistant lenses?
- j. Write the Refractive index of light barium and glass is?

Section – B

(5 marks each)

- Q2. Describe briefly fundamentals of lens surfacing and quality?
- Q3. Write short note on:-Transposition?
- Q4. Write the comparison between glass and plastic lenses?
- Q5. Discuss the significance of various facial measurements in prescribing glasses to the patients?
- Q6. Write about prism prescription and it's application in dispensing?

Section – C

(10 marks each)

- Q7. Classification of lens tints, method of obtaining different tints and uses of each type of lens tints?
- Q8. Explain the verification process in detail for verifying the trouble shooting of lens and frame?
- Q9. Discuss in detail about pediatric dispensing and management, facial measurement and measuring height?