Roll No……..….. **Total No. of Printed Pages: 1**
Total No. of Questions: [09]

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?