**Roll No……..…..** **Total No. of Printed Pages: 1**

**Total No. of Questions: [09]**

**B.Sc. Optometry (Semester – 4th)**
**INTRODUCTION TO VISION SCIENCE**
**Subject Code: BOPTS1401**
**Paper ID: 20131816**

**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) What is the function of Electroretinogram (ERG)?
(b) What are the types of contrast sensitivity?
(c) What is spectral sensitivity?
(d) Write clinical uses of EOG.
(e) What is the basic unit used in photometry?
(f) What are visual illusions?
(g) Write two functions of Edinger-Westphal nucleus.
(h) What is stereoscopic depth perception?
(i) Name the third order neuron in visual pathway.
(j) What are the different types of eye movements?

**Section – B** **(5 marks each)**

Q2. Write about visual pathways.
Q3. Write a short note on VER.
Q4. Describe the changes in visual acuity with age.
Q5. Write a short note describing binocular perception and stereoscopic depth perception.
Q6. What are the newer developments in vision science?

**Section – C** **(10 marks each)**

Q7. Draw and explain visual cortex and its functions
Q8. What is contrast sensitivity? How is it measured?
Q9. Define binocular vision and discuss various grades of binocular vision.