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Total No. of Questions: [09]

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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.