

B.Sc. 5th Semester (Honours) Examination, 2019-20

PHYSIOLOGY

Course ID : 52511

Course Code : SH/PHY/501/C-11 (T)

Course Title : Special Senses

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* questions: 1×5=5
- (a) What is rhodopsin?
 - (b) Mention the secondary functions of ear.
 - (c) What are the basic taste modalities?
 - (d) What is blind spot?
 - (e) State the function of auditopsychic area.
 - (f) Differentiate between vitreous humor and aqueous humor.
 - (g) Differentiate between conductive deafness and neural deafness.
 - (h) What is tympanic reflex?
2. Answer *any two* questions: 5×2=10
- (a) Mention the layers of retina and write their functions. 3+2=5
 - (b) What is accommodation reflex? Briefly describe the pathway of accommodation reflex. 1+4=5
 - (c) Briefly mention the EM structure of taste bud with suitable diagramme. 3+2=5
 - (d) Explain the role of middle ear in impedance matching. What is cochlear microphonic potential? 4+1=5
3. Answer *any one* question: 10×1=10
- (a) Draw and describe the pathway of hearing. Add a note on organ of Corti. 8+2=10
 - (b) (i) What is primary colour? Write the function of fovea centralis.
(ii) Discuss the photochemical changes in retina during bright light vision. (2+2)+6=10
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