

B.Sc. Semester-V Examination, 2022-23**PHYSIOLOGY [Honours]**

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 right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** questions of the following:

1×5=5

- Mention the location and function of amacrine cells.
- Define neural deafness.
- What is cochlear microphonic potential?
- What are basic taste modalities?
- Differentiate between endolymph and perilymph.
- Name the muscles of the middle ear.
- What is dark adaptation?

h) What is macrosomatic animal? Give one example.

2. Answer any **two** questions of the following:

5×2=10

- Explain Young-Helmholtz theory of colour vision. What is colour blindness? 3+2
- What is accommodation reflex? Describe the pathway of accommodation reflex. 1+4
- Discuss the mechanism of appreciation of different taste sensation. What is Aguesia? 4+1
- Describe the structure of olfactory membrane. what is anosmia? 4+1

3. Answer any **one** question of the following:

10×1=10

- Draw and describe the visual pathway. Explain the effects of lesions at different levels of visual pathway? 2+4+4
- What is olfaction? Define odourant. Discuss the neural pathway of olfaction in man with diagram. 2+2+(4+2)