

U.G. 5th Semester Examination-2020**PHYSIOLOGY****[HONOURS]****Course Code : PHYSIOL-H-CC-T-11**

Full Marks : 40

Time : 2½ Hours

*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: 2×5=10
 - a) What is blind spot?
 - b) What is fovea centralis?
 - c) What is myopia?
 - d) What do you mean by primary tastes?
 - e) What is organ of Corti?
 - f) What is Argyll-Robertson Pupil?
 - g) What are opiate receptors?
 - h) What is after taste?
2. Answer any **two** questions : 5×2=10
 - a) What is decibel? Discuss the function of middle ear in the process of sound transduction. 1+4=5

- b) Define taste bud. Describe the histological structure of taste bud with labelled diagram . 1+4=5

- c) What is light reflex? 5
- d) Draw the histological structure of retina and labelled it. 5

3. Answer any **two** questions: 10×2=20

- a) What is Accommodation of Eye? Describe the mechanism of Accommodation with diagram. 2+8=10
- b) Give a brief account of dark adaptation. What is light adaptation? 8+2=10
- c) Trace the neural pathway carrying the olfactory signal to the brain. What is olfactometer? 8+2=10
- d) What is Organ of Corti? Discuss the ionic basis of Signal transduction in these auditory hair cells. 3+7=10
