

Total Pages - 3

UG/5th Sem/Physio(H)/T/19

2019

B.Sc. (Honours)

5th Semester Examination

PHYSIOLOGY

Paper - C11T

(Sensory Physiology)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any *five* questions from the following.

5×2=10

(a) State Weber-Fechner's law. 2

(b) What is direct and indirect light reflex of eye?
1+1

(c) State Müller's law of specific nerve energy. 2

[Turn Over]

(2)

- (d) Which spinal pathway does carry pain and temperature sensation ? 1+1
- (e) Write the cause of *myopia*. 2
- (f) Why cornea does not have any blood supply ? 2
- (g) State difference between photopic and scotopic vision. 2
- (h) What is cochlear microphonics ? 2

Group - B

2. Answer any *four* questions from the following.

4×5=20

- (a) Describe briefly the chemical changes of retina after exposure to light. Mention the functions of iris muscles of eye. 4+1
- (b) Briefly describe the touch pathway with a suitable diagram. 3+2
- (c) What is light reflex ? Describe the reflex arc of light reflex. 2+3
- (d) Describe the modern theory of sound transmission in the light of Helmholtz place theory. 5

(3)

(e) Define decibel and Lux. Write the modern concept of color vision. 2+3

(f) (a) What is olfactometer ?

(b) Briefly describe the mechanism of olfactory sensation. 2+3

Group - C

3. Answer any *one* question from the following.

1×10=10

(A) (a) Describe the neural pathway of taste sensation with a suitable diagram.

(b) Write down the clinical importance of ERG

(c) What do you mean by perimetry ?

(4+2)+2+2

(B) (a) Describe the origin, course and termination of visual pathway with neat-diagram.

(b) Discuss briefly the frequency distribution pattern of sound on basilar membrane of cochlea. (2+2+2)+4