

20U324S

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Name:

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CUCBCSS-UG)

CC15U PSY3 C01 - HUMAN PHYSIOLOGY III

(Psychology - Complementary Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

I. Answer *all* questions. Each question carries 1 mark.

A. Answer in single word:

1. Pigmented and photosensitive nervous layer of the eye
 - a. Retina
 - b. Sclera
 - c. Choroid
 - d. Cornea
2. Bone attached to the tympanic membrane
 - a. Stapes
 - b. Malleus
 - c. Incus
 - d. Helicotrema
3. Receptors for the position sensation
 - a. Free nerve endings
 - b. Merkel's disc
 - c. Ruffini's end organ
 - d. Pacinian corpuscles
4. The structure in brain concerned with the reflex action of eyeballs
 - a. Pretectal nucleus
 - b. Superior colliculus
 - c. Supra-optic nucleus
 - d. Bed nucleus
5. The structure of eye that joins the uncrossed lateral fibers of opposite side to form the optic tract is
 - a. Optic nerve
 - b. Optic chiasma
 - c. Optic tract
 - d. Visual cortex

B. Fill in the blanks:

6. Frequency range of human hearing is
7. Smallest bone in the human body is
8. Cochlea is filled with a watery fluid is called
9. The chemical signal released by an organism, that influence the behaviour of other organism of the same species is called
10. The opponent process theory was postulated by

(10 × 1 = 10 Marks)

II. Short answer type questions. Answer *all* questions. Each question carries 2 marks.

11. Exocrine gland and endocrine gland
12. ADH
13. Vibration and itch.
14. Olfactory bulb.
15. ACTH
16. Canal of Schlemm.
17. Blind spot.
18. Organ of Cortis.
19. Umami taste.
20. TSH

(10 × 2 = 20 Marks)

III. Short essay. Answer any *six* questions. Each question carries 5 marks.

21. Mention the functions of hypothalamus and pituitary gland.
22. Explain the gustatory sensation.
23. Theories of colour vision.
24. Anatomy of ear.
25. Write a note on the statoreceptors.
26. Classification of the somatic senses.
27. Sensory pathways for transmitting somatic signals to CNS.
28. Organization of the olfactory membrane.

(6 × 5 = 30 Marks)

IV. Essay type questions. Answer any *two* questions. Each question carries 10 marks.

29. Write an essay on the major endocrine glands and their hormones.
30. Describe the cutaneous senses with special reference to pain sensation.
31. Write an essay on taste sensation.
32. Describe the photochemistry of vision.

(2 × 10 = 20 Marks)
