

16U321

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Name:

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

Psychology - Complementary Course

CC15U PSY3 C01- HUMAN PHYSIOLOGY III

(2015 Admission onwards)

Time: Three Hours

Maximum Marks :80

PART A

Answer *all* questions. Each question carries 1 mark

1. Name the endocrine gland that secretes the peptide hormone calcitonin.
2. In which lobe is the primary visual area located.
3. Name the pain control system of the brain and spinal cord.
4. Which nerve first carries taste impulses from the anterior 2/3rds of the tongue?
5. Name the cochlear membrane on which the organ of corti is situated.

Fill in the blanks:

6. Pain felt in a part of the body far away from the tissue causing it is known as pain.
7. physically connects hypothalamus with the pituitary gland.
8. is the first bony ossicle that is in contact with the tip of the cone of the ear drum.
9. The surface of cornea is covered by a thin, transparent membrane known as the
10. is the hormone secreted by the endocrine gland thymus.

(10 x1 =10 Marks)

PART B

Answer *all* questions. Each question carries 2 marks

11. Write a note on the hormone melatonin.
12. Explain how the aperture size of the pupil is adjusted.
13. Give a brief note on visceral pain.
14. Name the primary sensations of taste.
15. Differentiate optic nerve from optic tract.
16. Write a note on the detection of the sensation of vibration.
17. What is the significance of the sensation of itch?

18. Differentiate conduction deafness from nerve deafness.
19. What is the cause of astigmatism? How can it be rectified?
20. Name the various tactile sensations.

(10 x 2= 20 Marks)

PART C

Answer any *six* questions. Each question carries 5 marks

21. Explain in detail the organization of cochlea with special emphasis on the organ of corti.
22. Give the location of pancreas and explain the actions of pancreatic hormones.
23. Give details of the neuronal pathways for transmission of taste signals to the CNS.
24. Explain the pain suppression system in the brain.
25. Explain how the various neuronal components are arranged in the retina.
26. Detail the chemistry of vision.
27. Explain the anatomical organization of the external and middle ear.
28. Explain the organization of the olfactory epithelium.

(6 x 5 = 30 Marks)

PART D

Answer any *two* questions. Each questions carries 10 marks

29. Explain the organization of the adrenal gland and discuss the functions of the hormones produced by the adrenal cortex.
30. Trace the pathway along which auditory signals reach the auditory cortex from the cochlea.

(2x10= 20 Marks)
