

D 92300

(Pages : 3)

Name.....

Reg. No.....

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**THIRD SEMESTER B.Sc. DEGREE EXAMINATION
NOVEMBER 2015**

(CUCBCSS-UG)

Complementary Course

PSY 3C 01—HUMAN PHYSIOLOGY—III

Time : Three Hours

Maximum : 80 Marks

Section A

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

A. Objective type Questions :

(i) Multiple Choices. Choose the correct answer :

- 1 Who developed the trichromatic theory of colour vision ?
 - (a) Ewald Hering.
 - (b) David Hubel and Tortsten Wiesel.
 - (c) Stephen Kuffler.
 - (d) Thomas Young and Hermann von Helmholtz.
- 2 For the reception of stimuli governing equilibration and orientation in space, we have :
 - (a) Statoreceptor.
 - (b) Cryo receptor.
 - (c) Pinnae.
 - (d) Vestibular Column.
- 3 The olfactory receptor neurons transmit the information to the _____, which are located at the back of the nose.
 - (a) Olfactory epithelium.
 - (b) Olfactory bulbs.
 - (c) Olfactory mucus.
 - (d) Cribriform plate.
- 4 _____ transmit information about warmth.
 - (a) Meissner's corpuscles.
 - (b) Pacinian corpuscles.
 - (c) Ruffini endings.
 - (d) Krause's bulbs.
- 5 Adrenocorticotropic Hormone (ACTH) is a hormone produced by :
 - (a) Adrenal Gland.
 - (b) Pituitary Gland.
 - (c) Thyroid.
 - (d) Thymus.

Turn over

(ii) Fill in the Blanks :

- 6 _____ is a natural and commonly occurring cause of blurred or distorted vision that is usually associated with an imperfectly shaped cornea.
- 7 The membrane of the cochlear duct that faces the scala vestibuli is called the _____.
- 8 _____ are sensitive to touch.
- 9 A _____ is a sensory receptor that responds to mechanical pressure or distortion
- 10 _____ is an inability to perceive or identify a stimulus by sight even though they have normal visual acuity.

(10 × 1 = 10 marks)

Section B

Answer all questions.

Each question carries 2 marks each.

- 11 Cochlea.
- 12 Tympanic Membrane.
- 13 Taste pores.
- 14 Pain.
- 15 Itch.
- 16 Tactile Receptor.
- 17 Thymus.
- 18 Pheromones.
- 19 Endocrines.
- 20 Placenta.

(10 × 2 = 20 marks)

Section C

Answer any six questions.

Each question carries 5 marks each.

- 21 Write a short paragraph on the importance of retinal disparity.
- 22 Describe hearing abnormalities.
- 23 Write a short note on the organization of the olfactory membrane.
- 24 Explain the transmission of thermal signals.
- 25 Explain the transmission of signals via taste pathways.
- 26 Discuss visual defects.

- 27 The role played by hypothalamus in the regulation of human physiology.
- 28 Describe the position senses and its receptors.

(6 × 5 = 30 marks)

Section D

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

- 29 Explain the theories of colour vision.
- 30 Elucidate on the anatomy of the auditory system with its pathways.
- 31 Describe the cutaneous senses with special focus on pain sensations.
- 32 Write a note about the major endocrine glands and their functional importance.

(2 × 10 = 20 marks)