Second Semester BSc Degree Examination April/May PSYCHOLOGY Complementary Course ZO 1231.2- Biological Basis of Sensory Processes (For Psychology)

Time: 3 Hours

Maximum Marks :80

1. Answer all questions. Each carries one mark

A) Choose the correct answer.

- The aperture through which light passes into the eye is

 (a) Iris
 (b) Cornea
 (c) Pupil
 (d) Fovea
- 2. The sense organ present in each semicircular canal is called
 - (a) Crista (b)Macula (c) Utricle (d) Saccule
- 3. The ability to feel movements of body and limbs is known as
 - (a) Prosophenosia (b)Statoconia (c)Kinesthesis (d) Action potential)
- 4. Primary visual area in Broadmann's area
 (a) 4 (b) 6 (c)17 (d) 18

II. Fill in the blanks:

- 5. Pacinian corpuscle is a
- 6.is the SI unit of power of vision.
- 7.is the hypersensitivity to pain.
- 8. The membranous labyrinth of inner ear is filled with the viscous fluid known as.....

III. State whether true or false:

- 9. Tear glands are otherwise known as lacrimal glands.
- 10. It is the coloured portion visible in the eye.

- 11. Tactorial membrane is associated with perception of smell.
- 12. Superior olivary nucleus helps to determine the direction of sound
- 13. The weight of the human brain is 1.35kg.

(1X 13 =13)

IV. Match the following

14.	Ischaemia	Olfactory epithelium
15.	Erythrolabe	Visceral Pain
16.	Sustentacular cells	Amacrine cells
17.	Retina	Colour Vision
		(2)

V. Answer any 8 questions in two sentences each. Each question carries 3 marks

- 18. Eustachian tube
- 19. Taste buds
- 20. Olfactory bulbs
- 21. Classification of pain
- 22. Cataract
- 23. Basilamembrane
- 24.Timbre
- 25.Prepyriform area
- 26.Pain receptors
- 27.Olfactory epithelium
- 28.Hypermetropia

(8 X 3 = 24)

VI. Answer any 5 questions in two sentences each. Each question carries 5 marks

- 29. Describe the photochemistry of vision.
- 30. Describe volley principle.
- 31.Write a note on semicircular canals.
- 32.Explain the theories of colour vision
- 33. Outline the pain suppression pathways
- 34. How are the hair cells of organ of corti stimulated
- 35.Explain the neural mechanism of olfaction
- 36. Explain the intra ocular pressure and its regulation.

(5 X 5=25)

VII. Answer any 2 questions in two sentences each. Each question carries 8 marks

37. Explain the image formation on the retina.

38. Describe the pain perception and physiology of pain suppression

39. With the help of a suitable diagram explains the structure and functioning of the human auditory system.

(8 X 2 = 16)