

C 4013

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Name.....

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2016

(CUCBCSS-UG)

Complementary Course

PSY 4C 01 – HUMAN PHYSIOLOGY-IV

Time : Three Hours

Maximum : 80 Marks

Part A (Objective Type Questions)

Answer all questions.

Each question carries 1 mark.

A. Multiple choices. Choose the correct answer :

1. Lesions in the region of ventromedial hypothalamus can produce the condition called :

- (a) Aphagia. (b) Hyperphagia.
(c) Extreme thirst. (d) Static stage.

2. Hormone promoting reabsorption of water in the kidneys is :

- (a) Oxytocin. (b) Adrenalin.
(c) Cholecystokinin. (d) Vasopressin.

3. A generalized tonic-clonic seizure which results in a convulsion :

- (a) Petit mal seizure. (b) Grand mal seizure.
(c) Absence seizure. (d) Psychomotor seizure.

4. A degenerative brain disorder causes progressive memory loss, motor deficits and eventual death is :

- (a) Multiple sclerosis. (b) Alzheimer's disease.
(c) Dementia. (d) Huntington's disease.

5. Which of these is not a part of limbic system?

- (a) Hippocampus. (b) Septum.
(c) Amygdala. (d) Medulla.

B. Fill in the blanks :

6. Hormone act as a primary satiety factor to inhibit eating is _____.

7. _____ hypothesis emphasizing the relationship of salivary gland function and moisture receptors in the mouth.

8. _____ is an autoimmune demyelinating disease.

9. Estrogens and progesterone are produced by _____.

10. The ratio of weight in kilograms divided by the square of the height in meters is known as _____.

(10 × 1 = 10 marks)

Turn over

Part B

Answer all questions.

Each question carries 2 marks.

11. Amino acids.
12. Cerebral hemorrhage.
13. Hypovolemic thirst.
14. Fetal Hormones.
15. Puberty.
16. Reward Centers.
17. Apoptosis.
18. Huntington's disease.
19. Tameness.
20. Amygdala.

(10 × 2 = 20 marks)

Part C

Answer any six questions.

Each question carries 5 marks.

21. Causes and treatment of eating disorders.
22. Explain the 'sex differences in the brain'.
23. Write a short note on the functions of amygdala.
24. What are the peripheral factors that have an effect in water regulation?
25. Behavioral functions of the hypothalamus.
26. Compare and highlight the differences between the different types of epilepsy.
27. What are the various infections of the brain?
28. Explain the genetic factors that contribute to brain damage.

(6 × 5 = 30 marks)

Part D

Answer any two questions.

Each question carries 10 marks.

29. Explain the physiological basis of hunger.
30. Elucidate on the physiological basis of thirst.
31. What are the effects of gonadal hormones on adults and what are the neural mechanisms of sexual behavior.
32. Describe the neuropsychological disorders other than those for which seizures are the main symptom.

(2 × 10 = 20 marks)