

C 62084

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Name.....

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(UG-CCSS)

Complementary Course

Psychology

PS 4C 01—PHYSIOLOGICAL PSYCHOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type Questions. Answer *all* questions. Each question carries $\frac{1}{4}$ weightage :

A Multiple Choice :

1 Cells of the liver convert glucose into :

- (a) Sugar. (b) Insulin.
(c) Glycogen. (d) Glucagon.

2 Hunger center is situated in :

- (a) Lateral hypothalamus. (b) Ventromedial hypothalamus.
(c) Hippocampus. (d) Amygdala.

3 The involuntary activities of the organism is associated with :

- (a) CNS. (b) ANS.
(c) PNS. (d) Spinal cord.

4 An example of neurotransmitter is :

- (a) Insulin. (b) Serotonin.
(c) Thyroxin. (d) Saliva.

B Fill in the blanks :

5 _____ theory proposes that animals eat to maintain their body temperature.

6 The sensation caused by dehydration of the body is called _____.

7 _____ are located deep within the medial temporal lobes.

8 _____ is the main female sex hormone.

C Answer in a single word :

9 A set of chemical reactions taking place in the cells to sustain life.

10 A chronic condition of excess amount of body fat.

Turn over

- 11 The kind of thirst associated with increase in concentration of dissolved substance in the blood.
- 12 A small gap at the end of a neuron that allows information to pass from one neuron to the next.

(12 × ¼ = 3 weightage)

II. Short Answer Type Questions. Answer all *nine* questions. Each question carries a weightage of 1 :

- 13 Central Nervous System.
- 14 BMI.
- 15 Eating signals.
- 16 Lipids, amino acids and glucose.
- 17 Anorexia nervosa.
- 18 Frontal lobes.
- 19 Aggression.
- 20 Neural pathways.
- 21 Glycogen.

(9 × 1 = 9 weightage)

III. Answer any *five* questions. Each question carries a weightage of 2 :

- 22 Specific hungers.
- 23 Hypovolemic thirst.
- 24 Amygdala.
- 25 Limbic system.
- 26 Neurotransmitters.
- 27 Sympathetic and parasympathetic nerves.
- 28 Hippocampus.

(5 × 2 = 10 weightage)

IV. Essay Questions. Answer any *two*. Each question carries a weightage of 4 :

- 29 Explain in detail the neural foundations of learning.
- 30 What is the role of brain in human sexual behaviour ?
- 31 Discuss the neural aspects of emotionality.

(2 × 4 = 8 weightage)