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Name.....

Reg. No..... 76

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2015

(U.G.-CCSS)

Complementary Course—Psychology

PS 4C 01—PHYSIOLOGICAL PSYCHOLOGY

Time : Three Hours

Maximum : 30 Weightage

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

A. Multiple Choice :

1 Hunger center is situated in :

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

2 Excessive thirst is known as :

- (a) Polydipsia. (b) Polyuria.
(c) Dehydration. (d) Lipoprivation.

3 Male gametes are called :

- (a) Ovum. (b) Semen.
(c) Sperm. (d) Zygote.

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 Glucagon stimulates the conversion of glycogen into —————.

7 Long term reservoirs are adipose tissues found under the ————— and in abdominal cavity.

8 ————— is the main female sex hormone.

Turn over

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.
- 11 The nervous system that controls involuntary activities of the organism.
- 12 The capacity of neural tissue for long standing modification at the synapses.

(12 × ¼ = 3 weight)

II. Short Answer Type questions. Answer all *nine* questions. Each question carries 1 weightage

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

(9 × 1 = 9 weight)

III. Short Essay or Paragraph questions. Answer any *five* questions. Each question carries 2 weightage

- 22 Hippocampus.
- 23 Sympathetic and parasympathetic nerves.
- 24 Specific hungers.
- 25 External cues to sexual behaviour.
- 26 Hypovolemic thirst.
- 27 Osmotic thirst.
- 28 Lateral hypothalamic syndrome.

(5 × 2 = 10 weight)

IV. Essay questions. Answer any *two* from three. Each question carries a weightage of 4.

29 What are the neural foundations of learning ?

30 Describe the physiological bases of eating behaviour.

31 Explain the role of hypothalamus in regulating eating and drinking behaviour.

(2 × 4 = 8 weightage)