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Name.....53.....

Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION  
NOVEMBER 2014**

(CUCBCSS-UG)

Complementary Course – Psychology  
PSY 1C 01 – HUMAN PHYSIOLOGY – I

Time : Three Hours

Maximum : 80 Marks

**Part A (Objective Type Questions)**

*Answer all questions.*

*Each question carries 1 mark.*

(i) Multiple Choices. Choose the correct answer :

1. Evolutionary theory was introduced by :

- (a) Mendel. (b) Wilhelm Keeton.  
(c) Charles Darwin. (d) Morgan.

2. The substance that makes up the gene is a chemical called :

- (a) Deoxyribonucleic acid. (b) Ribonucleic acid.  
(c) Protoplasm. (d) Cytoplasm.

3. The Double-helical theory of gene structure was advanced by :

- (a) Johannsen. (b) Francis Crick and J.D. Watson.  
(c) Lamark. (d) Morgan.

4. The location of a gene on a chromosome is referred to as its :

- (a) Locus. (b) Centromere.  
(c) Homeostasis. (d) Nucleus.

5. Name the organ that produce gametes in animals :

- (a) Gonads. (b) Thyroid.  
(c) Adrenal. (d) Testis.

(ii) Fill in the Blanks :

6. \_\_\_\_\_ is the process by which gametocytes are formed.

7. A set of Allele pairs that are different is called \_\_\_\_\_.

8. In sexual reproduction, the sperm and egg unite to produce a single cell called \_\_\_\_\_.

Turn over

9. Darwin's concept of "Natural Selection" is often used synonymously with the phrase \_\_\_\_\_.
10. Meiotic error known as 'non-disjunction' results in \_\_\_\_\_.

(10 × 1 = 10 marks)

**Part B***Answer all short answer questions.**Each question carries 2 marks.*

- |                        |                             |
|------------------------|-----------------------------|
| 11. Cell principle.    | 12. Sex-linked chromosomes. |
| 13. DNA replication.   | 14. Lipids.                 |
| 15. Proteins.          | 16. Down's syndrome.        |
| 17. Edward's Syndrome. | 18. Homozygosity.           |
| 19. Heterozygosity.    | 20. Genotype.               |

(10 × 2 = 20 marks)

**Part C***Answer any six of the following.**Each question carries 5 marks.*

21. Sex chromosomal Anomalies.
22. Patterns of Inheritance.
23. Cell Division.
24. Morphology of chromosomes.
25. Unicellularity and Multicellularity.
26. Structure of carbohydrates.
27. Cell theory.
28. Concept of a gene.

(6 × 5 = 30 marks)

**Part D***Answer any two of the following.**Each question carries 10 marks.*

29. Give an account of the major types of tissues.
30. Illustrate the structure and functions of a cell.
31. Briefly explain Mendel's work and laws of inheritance.
32. Discuss gene mutation. What are the different kinds of mutations?

(2 × 10 = 20 marks)