

20U127S

(Pages: 2)

Name:

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CUCBCSS-UG)

CC15U PSY1 C01 - HUMAN PHYSIOLOGY

(Psychology - Complementary Course)

(2015 to 2018 Admissions - Supplementary)

Time: Three Hours.

Maximum: 80 Marks

*Answer may be written **either** in English **or** in Malayalam
Give illustrations wherever necessary*

I. Answer **all** questions. Each question carries one mark :

A. Multiple choice questions. :

1. The cross like arrangements of homologous chromosomes during crossing over is called:
(a) Bivalent (b) Tetrad (c) Chiasma (d) Linkage
2. The region of the chromosome at which a particular gene is located:
(a) Nucleus (b) Locus (c) Cell (d) Core
3. The cells which have the ability to initiate electric signals and to propagate these signals along their processes from one area of the body to another is known as:
(a) Muscle cells (b) nerve cells (c) epithelial cells (d) blood cells
4. PKU is caused by the accumulation of
(a) Phenyl alanine (b) tyrosin (c) alkaptone (d) galactose
5. Sickle cell anaemia is caused by the replacement of Glutamic acid by:
(a) Alanine (b) Leucine (c) Tyrosine (d) Valine

B. Fill in the blanks

6. Genetic constitution of an organism is called _____
7. Diagrammatic representation of karyotype is called _____
8. _____ is the coding sequences in the DNA
9. Metacentric chromosomes have _____ at the center
10. Cell theory is proposed by _____

(10 x 1 =10 Marks)

II. Answer **all** questions. Each question carries two marks

11. What is cytoplasm?
12. What is the cause of Albinism?
13. Define mutagens.
14. What is inversion?
15. What is test cross?

16. What is Cri du Chat syndrome?
17. Define homozygosity.
18. Significance of meiosis.
19. What is pleiotropy?
20. What is the function of mitochondria?

(10 x 2 = 20 Marks)

III. Answer any *six* questions. Each question carries five marks

21. Discuss sex chromosomal anomalies.
22. Explain the functions of genes and chromosomes.
23. Explain the process of DNA replication.
24. Explain fluid mosaic model of plasma membrane.
25. Write a brief note on epistasis.
26. Which are different types of muscle tissue?
27. Explain crossing over.
28. Write a note on errors in phenyl alanine metabolism.

(6 x 5 = 30 Marks)

IV. Answer any *two* of the following. Each carries ten marks.

29. With the help of a neat labelled diagram, explain the structure of animal cell.
30. Which are different types of mutation? Explain.
31. Explain Watson and Crick model of DNA.
32. Explain the process of mitosis.

(2 x 10 = 20 Marks)
