

17U134

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Name: .....

Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017**

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

**CC15U PSY 1C01- HUMAN PHYSIOLOGY**

(Psychology - Complementary Course)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 80 Marks

Part A

Answer *all* questions. Each question carries 1 mark.

1. The gene which inhibits the expression of other non -allelic gene is called.....
  - (a) Epistatic gene
  - (b) Dominant gene
  - (c) Hypostatic gene
  - (d) Recessive gene
2. Linkage was discovered by.....
  - (a) Punnet
  - (b) Mendel
  - (c) Muller
  - (d) Morgan
3. Klinefelter's syndrome has.....
  - (a) 44A+XXY.
  - (b) 44A+XO.
  - (c) 44A+XY.
  - (d) 45+XXY.
4. Plasma membrane is made up of.....
  - (a) Lipids
  - (b) Lipids and Protein
  - (c) Protein
  - (d) Cellulose.
5. The site for protein synthesis is.....
  - (a) Ribosome
  - (b) Nucleus
  - (c) Lysosome
  - (d) Centrioles
6. The point where the crossing over occurs between the homologous chromosomes of a pair is called.....
7. The chromosome with centromere near the middle is called.....
8. ....is known as suicidal bag of cell
9. The gene which is located in the homologous portion of Y is called.....
10. Albinism is due to the deficiency of the enzyme.....

**(10x1= 10 Marks)**

### **Part B**

Answer *all* questions. Each question carries 2 marks.

11. Define cell cycle
12. Difference between unicellular and multicellular organisms
13. Complete linkage
14. Albinism
15. Cell theory.
16. Idiogram
17. Introns
18. Alkaptonuria
19. Connective tissue
20. Genotype

**(10x2= 20 Marks)**

### **Part C**

Answer *any six* questions. Each question carries 5 marks.

21. Fluid mosaic model of plasma membrane
22. Explain the morphology of chromosome.
23. Sex chromosomal anomalies
24. Explain the following:
  - a) Epistasis
  - b) Pleiotropy
25. Structure of protein
26. Explain the sub stage of prophase 1 of meiosis
27. Explain different types of mutations.
28. Structure of DNA

**(6 x 5= 30 Marks)**

### **Part D**

Answer *any two* questions. Each question carries 10 marks.

29. Explain chromosomal aberrations and disorder.
30. Explain Mendel's work and laws of inheritance
31. Describe Mitotic stages using suitable diagrams.
32. Define Tissue and explain different types of tissue

**(2 x 10= 20 Marks)**

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