



Date: 27-10-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part A

ANSWER ALL QUESTIONS:

(10 x 2= 20)

1. What is linkage?
2. Define Euploidy.
3. Write a note on types of cancer.
4. Define oncogene.
5. What is transduction?
6. Write a note on mutational hot spots.
7. What are promoters.
8. Explain feedback inhibition.
9. Describe second messengers.
10. Write a note on membrane proteins.

Part B

ANSWER ANY FOUR QUESTIONS:

(4X 10=40)

11. Give a short notes on extranuclear inheritance pattern and quantitative inheritance.
12. Write a paragraph on oncogenesis.
13. What are the different types of mutations and add a note on biochemical basis of mutants.
14. Write short notes on a) Turner syndrome b) Klinefelter syndrome
15. Explain the chromosome mapping in man.
16. Give an account on active and passive transport across cell membranes.

Part C

ANSWER ANY TWO QUESTIONS:

(2X 10=20)

17. Give an account on population genetics and evolution.
18. Discuss in detail chromosomal variations based on number and structure.
19. Explain a. conjugation and transformation.
b. Generalized and specialized transduction
20. Define signal transduction and explain the role of signal molecules and their detection by receptors.
