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(20516)

Roll No.

B.Sc.(Micro.)-II Year

3495

B. Sc. (Micro.) Examination, May 2016

Cell Reproduction and Differentiation

(B-202)

Time: Two Hours]

[Maximum Marks: 55

Note: Attempt any Five questions. All questions carry equal marks.

1. Differentiate between the following: 1×7
 - (i) Telomere and centromere
 - (ii) Euchromatin and heterochromatin
 - (iii) Polytene and Lampbrush chromosomes
 - (iv) Nucleosome and centrosome
 - (v) Chromatid and chromosome
 - (vi) Acrocentric and metacentric chromosome
 - (vii) Chromomere and centromere.

2

- (a) Differentiate between metaphase-I and II of meiosis with suitable illustrations. 3½
- (b) Describe cell cycle with emphasis on interphase. using suitable diagrams. 3½

3

- (a) Describe various phases of meiotic prophase with suitable illustrations. 3½
- (b) Differentiate between mitosis and meiosis. 3½

4

- (a) Describe the structural organization of chromatids. 3½
- (b) Discuss the organization of nucleosome. 3½

5

- (a) Differentiate between a plant and an animal cell. 3½
- (b) Differentiate between a normal and a cancer cell. 3½

6

Describe cell signalling. How does a normal cell switch to cancerous cell? 7

7

Write a brief account of factors involved in intercellular recognition/rejection. 7

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8. Write an account of the following :
- (a) Cell adhesion 3½
 - (b) Ion transport across cell junctions. 3½
9. (a) Write an account of bacterial chemotaxis. 3½
- (b) Write an account of chemical composition of chromosomes. 3½
10. Discuss regulation of cell differentiation. 7

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