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(20516)

B.Sc.(Micro.)-II Year

Roll No. 966/020

3495

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

Cell Reproduction and Differentiation

(B-202)

Time: Three Hours]

[Maximum Marks: 35

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

- 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)	
3	(a) Differentiate between metaphase-I and II of	
	meiosis with suitable illustrations. 31/4	
	(b) Describe cell cycle with emphasis on interphase,	
	using suitable diagrams. 31/4	
3.	(a) Describe various phases of meiotic prophase	
	with suitable illustrations.	
	(b) Differentiate between mitosis and meiosis. 31/2	
4.	(a) Describe the structural organization of	
	chromatids. 31/2	
	(b) Discuss the organization of nucleosome. 3½	
	n de la companya de La companya de la co	
5	(a) Differentiate between a plant and an animal cell.	
	31/2	
	(b) Differentiate between a normal and a cancer	
	cell. 3½	
6.	Describe cell signalling. How does a normal cell	100
	switch to cancerous cell?	
7.	Write a brief account of factors involved in	
	intercellular recognition/rejection. 7	
3495		

	(3)		
8.	Write an account of the following:		
	(a) Cell adhesion	31/2	
	(b) Ion transport across cell junctions.	- 31/2	
9.	(a) Write an account of bacterial chemotaxis.	31/2	
	(b) Write an account of chemical compositi		
	chromosomes.	31/2	
10.	Discuss regulation of cell differentiation.	7	
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Roll No. 169356915

B. Sc. (Micro.)-II

## 3495

## B. Sc. (Mircro.) Examination, May 2018 Cell Reproduction & Differentiation

(B-202)

[B. Sc. (Micro.)]

Time: Three Hours]

[Maximum Marks: 35

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

What are the chemical components of chromosomes? 7

- 2. Describe the types of histones and their organization in a nucleosome.
- Meiotic metaphase-I and mitotic metaphase

  (b) Tight junctions and gap junctions.

(2)	(20518)
Roll No. 169256915	21/40=7 2 8
4. Comment on the following:	3½×2=7
(a) Desmosomes	
(b) Cell adhesion.	
to an organization of kinetochor	re. 7
the steps of differentiation i	
	7
B. Sc. (Alle radius II 2	3½×2=7
- thromosomes	
Part 1 J	Time: Three Hours
Describe the events during various	phases of cell
Describe the events damage cycle.	marka
Discuss cell division with respect to	meiosis and its
significance.	
10. Comment on the following:	3½×2=7
(a) Intercellular recognition	*
(b) Bacterial chemotaxis.	
tions and gap nunctions.	
	3495-2-