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(20524)

B.Sc. (Micro.) - II Yr.

(Printed Pages 3)

Roll No. .

3495

B.Sc. (Micro.) Examination, May-2024

Cell Reproduction & Differentiation

(B-202)

B.Sc. (Micro.)

Time : Three Hours /

(Maximum Marks : 35

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

1. Describe the morphology of chromosome on the basis of size, shape and number? 7

✓ 2. Differentiate between- $3\frac{1}{2} \times 2 = 7$

(a) Heterochromatin and Euchromatin

(b) Polytene and lampbrush

chromosomes

✓ 3. Describe meiosis only with the help of well labelled diagrams? Explain its significance? 7

✓ 4. What is the cell differentiation? Describe the significance of cell differentiation? 7

✓ 5. Comment upon the following: $3\frac{1}{2} \times 2 = 7$.
(a) What are the 4 major cell adhesion molecules?

(b) Synaptonemal complex

6. Explain the following- $3\frac{1}{2} \times 2 = 7$

(a) Cell functions

(b) Cell cycle

7. How signals are heard during bacterial chemotaxis? 7

8. Define following terms: $3\frac{1}{2} \times 2 = 7$

(a) Leptotene, pachytene

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(b) Telomere

9. Differentiate between the following-

$3\frac{1}{2} \times 2 = 7$

(a) Normal cell and cancer cell

(b) Karyokinesis and cytokinesis

10. What is nucleosome? Explain the packaging of DNA helix? Draw the labelled diagram of nucleosome? 7