



RAN - 1903000202030112

**RAN-1903000202030112**

**F.Y.B.Sc. (Sem. II) Examination April - 2023**

**Bioscience (Microbiology) : Paper - BS-202**

**Eucaryotic Cell Structure and Function**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

(१) नीचे दशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

F.Y.B.Sc. (Sem. II)

Name of the Subject :

Bioscience (Microbiology) : Paper - BS-202  
Eucaryotic Cell Structure and Function

Subject Code No.: 1903000202030112

Seat No.:

--	--	--	--	--	--

Student's Signature

- (2) Draw neat and labeled diagrams wherever necessary.  
(3) Figures to the right indicate full marks of the question.

**Q.1 Answer as directed:**

**12**

1. Differentiate between prokaryotic and eukaryotic cells.
2. What are the functions of the nucleus?
3. Why lysosomes are known as “the cleaners” of the cell waste?
4. Which phase is the longest in the cell cycle?
5. Explain - cell cycle
6. Describe in brief giant chromosome.

**Q.2 Answer any two of the followings.**

**14**

1. Describe in brief ultra structure & functions of membrane.
2. Draw a neat & labelled diagram of ultra structure of mitochondrion.
3. Write a note on - Ribosome.

**Q.3**      **Answer any two of the followings.**      **14**

1. Draw a neat & labelled diagram of eukaryotic cell.
2. Write a note on - ER
3. Describe in brief mitotic cell division.

**Q.4**      **Write short notes: (Any two)**      **10**

1. Structure & function of Golgi body.
  2. Ultra structure of chloroplast.
  3. Differences between mitosis & meiosis.
-