

A (Printed Pages 3)
(20622) Roll No. .
B.Sc. (Biotech.)-I Year.

NS-3457

B.Sc. (Biotechnology) Examination,

June-2022

Cell Biology

(B-103)

B.Sc. (Bio.Tech.)

Time : Three Hours] [Maximum Marks : 50

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

1. Why nucleus is called as Controlling Centre of cell? Explain. 10
2. Explain about animal Cell with help of well labelled diagram. 10
3. Write detailed notes on the following:
 - (i) Programmed cell death 5
 - (ii) Sucidial bags 5

P.T.O.

4. Differentiate between the following terms: 4+3+3=10

- (i) Anaphase I and Anaphase II of meiosis.
- (ii) Prokaryotic Cell and Eukaryotic Cell
- (iii) SER and RER.

5. Write detailed notes on the followings:

- (i) Structure of muscle cell 5
- (ii) Prophase I of meiosis 5

6. Discuss ultrastructure of mitochondria in detail. 10

7. Write notes on the following:4+3+3=10

- (i) Transcription
- (ii) Fluid mosaic model of Plasma membrane
- (iii) Functions of Golgi Bodies

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8. How cancer cells differ from normal cells?

Discuss in detail. 10

9. Write short notes on the following:

4+3+3=10

(i) PPLO

(ii) Adenylate cyclase

(iii) Cell locomotion

10. Very short answers are required. Attempt

all the following questions. 2½

**(i) Write difference between Plant Cell
and Animal Cell.**

(ii) Peroxisomes

(iii) Nerve Cells

(iv) Functions of Chloroplast.