

H-56079

Seat No. _____

M. Sc. - II Examination

April / May – 2003

Biochemistry : Paper - V
(Bioenergetics & Biotechnology)

Time : Hours]

[Total Marks :

1 Write briefly about any three of the following

- a) Restriction endonucleases
- b) Phage as a cloning vector
- c) Functions and importance of plasmid
- d) c-DNA

2 What is the importance of phage vectors in recombinant DNA technology?

OR

What is the importance of plasmid vectors in recombinant DNA technology?

3 Describe in detail chemical biodeterioration giving suitable examples.

OR

List various factors responsible for biodeterioration. How can we control biodeterioration?
Explain with suitable examples.

4. Explain chemiosmotic theory.

OR

Explain the structure of plasma membrane. How do charged molecules get transported across the plasma membrane?

5. Write briefly about any THREE of the following

- (a) Bioluminescence
- (b) Photorespiration
- (c) Structure and function of light harvesting complex
- (d) Metabolism of C4 plants
