

M.Sc (Part I) By Research
Microbiology paper III Microbial
Biochemistry

AGJ 1st Part (40) 39

Con. 5992-13.

By Papers I

By Research I

(3 Hours)

PB-5566

[Total Marks : 75

[Total Marks : 100

26 April 2013

N.B. : (1) All questions are compulsory.

(2) Figures to the right indicate full marks.

1. (a) Explain any two of the following :- 10/10
 - (i) Mechanism of action of allosteric enzymes
 - (ii) Purification of proteins using iso-electric precipitation
 - (iii) Protein structure software.
- (b) Write a note on any one of the following :- 5/6
 - (i) Determination of active site of an enzyme
 - (ii) Mitochondrial DNA.
2. With the help of metabolic reactions/diagrams, explain any three of the following :- 15/21
 - (a) Degradation of methionine to succinyl CoA
 - (b) Serine isocitrate lyase pathway in methylotrophs.
 - (c) Biosynthesis of tyrosine from PEP and E4P.
 - (d) Biosynthesis of phycobiliproteins.
3. Discuss any three of the following :- 15/21
 - (a) Translocation of membrane bound proteins
 - (b) Metabolism of alkanes by bacteria
 - (c) Phototrophic procaryotes
 - (d) Membrane and transport lipids.
4. (a) Write an essay on any one of the following :- 10/14
 - (i) Electrophoresis
 - (ii) Two component signalling system in bacteria.
- (b) Give significance of any one of the following :- 5/7
 - (i) Porins
 - (ii) Starvation stress.
5. Write short notes on any three of the following :- 15/21
 - (a) Advantages and disadvantages of immobilization of enzymes
 - (b) Ribulose monophosphate pathway in methylotrophs
 - (c) Trp operon
 - (d) HPLC.

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Table of Contents M Sc Biochemistry Question Paper

1. Understanding the eBook M Sc Biochemistry Question Paper
 - The Rise of Digital Reading M Sc Biochemistry Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying M Sc Biochemistry Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an M Sc Biochemistry Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from M Sc Biochemistry Question Paper
 - Personalized Recommendations
 - M Sc Biochemistry Question Paper User Reviews and Ratings
 - M Sc Biochemistry Question Paper and Bestseller Lists
5. Accessing M Sc Biochemistry Question Paper Free and Paid eBooks

- M Sc Biochemistry Question Paper Public Domain eBooks
- M Sc Biochemistry Question Paper eBook Subscription Services
- M Sc Biochemistry Question Paper Budget-Friendly Options
- 6. Navigating M Sc Biochemistry Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - M Sc Biochemistry Question Paper Compatibility with Devices
 - M Sc Biochemistry Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of M Sc Biochemistry Question Paper
 - Highlighting and Note-Taking M Sc Biochemistry Question Paper
 - Interactive Elements M Sc Biochemistry Question Paper
- 8. Staying Engaged with M Sc Biochemistry Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers M Sc Biochemistry Question Paper
- 9. Balancing eBooks and Physical Books M Sc Biochemistry Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection M Sc Biochemistry Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine M Sc Biochemistry Question Paper
 - Setting Reading Goals M Sc Biochemistry Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of M Sc Biochemistry Question Paper
 - Fact-Checking eBook Content of M Sc Biochemistry Question Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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