



2022
M.Sc. (Microbial Biotechnology)
First Semester
MBT-104: Microbial Biochemistry and Enzymology

Exam Code: 0469
Sub. Code: 3084

Time allowed: 3 Hours Max. Marks: 60

NOTE: Answer any questions in MC including Question No. 26 (100%) which is compulsory and attempt one question each from Unit I - IV.

UNIT - I

- I. a) Describe the types of different classes of Carbohydrates with example and their function.
b) Discuss the following:-
(i) Relationship between Free energy and enthalpy
(ii) Ramachandran plot (05.5)
- II. a) Discuss the conformation of proteins and the relevance of domains and motifs.
b) Write notes on:-
(i) Henderson-Hasselbalch equation & buffers
(ii) Vitamins (05.5)

UNIT - II

- III. a) Describe the β -oxidation of Fatty acid. Also calculate the energy yield of this process.
b) Is Gluconeogenesis a reverse pathway of Glycolysis? Give reasons to support your answer. (05.5)
- IV. a) Describe the Citric Acid Cycle during aerobic respiration indicating the reactants, enzymes, products & reduced coenzymes.
b) Discuss (i) Phases & Benefits of HMP (ii) Fates of Cholesterol. (05.5)

UNIT - III

- V. a) Discuss the following: Transamination, Decarboxylation and the fate of amino group.
b) Write notes on:
(i) Aerobic respiration
(ii) Carbon skeletons of amino acids (05.5)
- P.T.O.

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(2)

- VI. a) The amino acids are synthesized from intermediates of various metabolic pathways. Discuss.
b) How do electrons move through the electron transport chain to generate energy? Describe with illustrations. (05.5)

UNIT - IV

- VII. a) Discuss the Michaelis-Menten Enzyme kinetics. Which factors influence kinetics?
b) Describe: (i) Industrial applications of enzymes (ii) Advantages of Multi-subunit complexes. (05.5)



First Sem Msc Biochemistry Question Paper

M Carnoy



First Sem Msc Biochemistry Question Paper:

The M.S.C. Record ,1923 British Qualifications ,1990 *Parliamentary Papers* Great Britain. Parliament. House of Commons,1981 **Transforming Biology** Juliet Flesch,2015-04-01 Transforming Biology opens a window on the lives and work of the scientists teachers and students who have contributed to the achievements of the Department of Biochemistry and Molecular Biology at the University of Melbourne Established in 1938 the department teaches and undertakes research in a discipline that links chemistry physiology genetics microbiology virology and physics and has championed new techniques and biotechnology innovations that reverberate around the world Highlighting the successful careers of many of its alumni and staff including the influential Victor Trikojus and the impact of benefactors such as Russell Grimwade Juliet Flesch tells the story of the evolution of a department engaged in fundamental biomolecular science as well as the translation of discoveries to industry and the clinic It has been one of the most important national and international bodies engaged in transforming biology *Sessional Papers, Printed by Order of the House of Lords, Or Presented by Royal Command, in the Session ..* Great Britain. Parliament. House of Lords,1984 *Sessional Papers Printed by Order of the House of Lords: Minutes of Proceedings ... Public Bills ... Reports from Committees ... Miscellaneous* Great Britain. Parliament. House of Lords,1984 Includes lists of orders rules bills etc **21st Century Nanoscience - A Handbook** Klaus D. Sattler,2020-11-13 21st Century Nanoscience A Handbook Public Policy Education and Global Trends Volume 10 will be the most comprehensive up to date large reference work for the field of nanoscience Its predecessor Handbook of Nanophysics by the same editor was published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This tenth volume in a ten volume set covers nanophotonics nanoelectronics and nanoplasmonics Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasizes presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond Documentation Abstracts ,1992

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Encyclopaedia of Indian Education J. S. Rajput,2004 **Chemistry in Canada** ,1974 **Nursing Times, Nursing Mirror** ,1999 *New Zealand Medical Journal* ,1975 *New Scientist* ,1979-10 **Australian Journal of Chemistry** ,2009 **APS Observer** ,2003 **The Chemical Engineer** ,1982 **Dictionary of International Biography** ,1996 A biographical record of contemporary achievement together with a key to the location of the original biographical notes

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