

Total Pages : 8

H-6323

M.Sc. (Semester-II) Examination, July 2022

CHEMISTRY

[Paper : MSC-203]

(Physical Chemistry)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 25

Note : This question paper is in four sections. All sections are **compulsory**. Attempt questions as per instructions given in each section.

SECTION-A

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark. [10x1=10]

H-6323/1000

(1)

[P.T.O.]

Sample Question Paper Applied Chemistry Second Sem

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Chemistry and Physics of Fracture R.M. Latanision, R.H. Jones, 2012-12-06 For many years it has been recognized that engineering materials that are tough and ductile can be rendered susceptible to premature fracture through their reaction with the environment. Over 100 years ago, Reynolds associated hydrogen with detrimental effects on the ductility of iron. The season cracking of brass has been a known problem for decades, but the mechanisms for this stress corrosion process are only today being elucidated. In more recent times, the mechanical properties of most engineering materials have been shown to be adversely affected by hydrogen embrittlement or stress corrosion cracking. Early studies of environmental effects on crack growth attempted to identify a unified theory to explain the crack growth behavior of groups of materials in a variety of environments. It is currently understood that there are numerous stress corrosion processes, some of which may be common to several materials, but that the crack growth behavior of a given material is dependent on microstructure, microchemistry, mechanics, surface chemistry, and solution chemistry. Although the mechanism by which various chemical species in the environment may cause cracks to propagate in some materials but not in others is very

complex the net result of all environmentally induced fracture is the reduction in the force and energy associated with the tensile or shear separation of atoms at the crack tip *Resources in Education* ,1994-11 **Applied Mineralogy** Won C. Park,Donald M. Hausen,Richard D. Hagni,1985 **Comprehensive Engineering Chemistry** Devender Singh,Satish Kumar Vats,2013-12-30 This book is designed to meet the requirement of the students of B Tech and B E students The book discusses in detail the following topics Thermodynamics Phase Rule Water and its Treatment Corrosion and its Prevention Lubrication and Lubricants Polymer and Polymerization and Analytical Methods The book is suitably illustrated with diagrams and a number of solved numerical examples from different universities are included to make the text more exhaustive and understandable Practical part is also appended at the end of the book *Chemistry in Canada* ,1959

Applied Mechanics Reviews ,1982 *The Operative Miller* ,1910 **Teaching Chemistry in Higher Education** Michael Seery,Claire Mc Donnell,2019-07-01 Teaching Chemistry in Higher Education celebrates the contributions of Professor Tina Overton to the scholarship and practice of teaching and learning in chemistry education Leading educators in United Kingdom Ireland and Australia three countries where Tina has had enormous impact and influence have contributed chapters on innovative approaches that are well established in their own practice Each chapter introduces the key education literature underpinning the approach being described Rationales are discussed in the context of attributes and learning outcomes desirable in modern chemistry curricula True to Tina s personal philosophy chapters offer pragmatic and useful guidance on the implementation of innovative teaching approaches drawing from the authors experience of their own practice and evaluations of their implementation Each chapter also offers key guidance points for implementation in readers own settings so as to maximise their adaptability Chapters are supplemented with further reading and supplementary materials on the book s website overtonfestschrift wordpress com Chapter topics include innovative approaches in facilitating group work problem solving context and problem based learning embedding transferable skills and laboratory education all themes relating to the scholarly interests of Professor Tina Overton About the Editors Michael Seery is Professor of Chemistry Education at the University of Edinburgh and is Editor of Chemistry Education Research and Practice Claire Mc Donnell is Assistant Head of School of Chemical and Pharmaceutical Sciences at Technological University Dublin Cover Art Christopher Armstrong University of Hull *Research in Education* ,1970 **Cognitive, Affective, Behavioral and Multidimensional Domain Research in STEM Education: Active Approaches and Methods towards Sustainable Development Goals (SDGs)** Jin Su Jeong,David Gonzalez-Gomez,Jianpeng Guo,James Robbe Kraly,2022-04-25

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