UNIVERSITY OF THE PUNJAB

M.A./M.Sc. Part – I Annual Exam – 2019

Roll No. ....

Subject: Mathematics (Old & New Course)
Paper: V (Topology and Functional Analysis)

Time: 3 Hrs.   Marks: 100

NOTE: *Attempt any FIVE questions in all selecting at least TWO questions from each section.*

SECTION-I

Q.1	(a)	Let A be a subset of a topological space (X, τ) then Prove that : (i) $(A^0)^c = \overline{A^c}$ (ii) $\bar{A} = A \cup F_r(A)$ (iii) $A^0 = A \setminus F_r(A)$.	(10)
	(b)	Prove that the set of rational numbers $\mathbb{Q}$, as a subspace of $\mathbb{R}$, does not have discrete topology.	(10)
Q.2	(a)	Prove that a function $f : X \to Y$, is continuous on X if and only if for any subset A of X, $f(\bar{A}) \subseteq \overline{f(A)}$	(10)
	(b)	Show that the mapping $(-1, 1) \cong \mathbb{R}$.	(10)
Q.3	(a)	Prove that every metric space is a Tychonoff space.	(10)
	(b)	Prove that $A = \{(x, y) \in \mathbb{R}^2 : x^2 + y^2 = 1\}$ is compact but $B = \{(x, y) \in \mathbb{R}^2 : y^2 = x\}$ is not compact in $\mathbb{R}^2$, with respect to the usual topology.	(10)
Q.4	(a)	A space X is a T_0–space if and only if, for any a,b in X, a≠b implies $\overline{\{a\}} \neq \overline{\{b\}}$.	(10)
	(b)	Let X be an infinite set with co-finite topology τ on X. Then show that (i) (X, τ) is compact (ii) (X, τ) is connected.	(10)

SECTION-II

Q.5	(a)	Show that the space l^∞ with respect to the norm defined by $\|x\| = \overset{\infty}{\underset{i=1}{Sup}} |x_i|$, is a Banach space.	(10)
	(b)	Define the distance from a point x to a subset M of (X, d) and show that $\left| d(x, M) - d(y, M) \right| \leq d(x, y)$. Also show that the function $f : X \to \mathbb{R}$, defined by $f(x) = d(x, M)$, is uniformly continuous.	(10)
Q.6	(a)	Give an example of Cauchy sequence of real valued continuous functions defined on a [-1,1] that converges to a discontinuous function.	(10)
	(b)	(i) Prove that the closure $\bar{C}$ of a convex subset C of a normed space X, is a convex set. (ii) Find the norm of the linear functional $f(x) = \int_{-1}^{0} x(t)dt - \int_{0}^{1} x(t)dt$ on $C[-1, 1]$ under the integral norm.	(10)
Q.7	(a)	Prove that the dual space of norm space l^3 is isomorphic to $l^{\frac{3}{2}}$.	(10)
	(b)	If the closed unit ball $\bar{B}(0, 1) = \{x \in X : \|x\| \leq 1\}$ in a normed space X, is compact then prove that X has a finite dimension.	(10)
Q.8	(a)	Prove that the normed space l^∞ is not separable.	(10)
	(b)	For any $a = (a_1, a_2, \ldots, a_n) \in \mathbb{R}^n$ define $f_a : \mathbb{R}^n \to \mathbb{R}$ by $f_a(x) = \sum_{i=1}^{n} a_i x_i$, $x \in \mathbb{R}$. then prove that (i) f_a is linear functional (ii) f_a is bounded (iii) $\|f_a\| = \|a\|$.	(10)
Q.9	(a)	State and prove parallelogram law in a normed space X. Give example of two continuous functions defined on a closed interval that do not satisfy parallelogram law.	(10)
	(b)	Let M be a convex subset of a Hilbert space H, and $\{x_n\}$ be a sequence of M such that $\|x_n\| \to \underset{x \in M}{\inf} \|x\|$. Show that $\{x_n\}$ converges in H. Give an illustrative example in $\mathbb{R}^n$.	(10)

Msc Maths Functional Analysis

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Msc Maths Functional Analysis:

  Functional Analysis in Applied Mathematics and Engineering Michael Pedersen,2018-10-03 Presenting excellent material for a first course on functional analysis Functional Analysis in Applied Mathematics and Engineering concentrates on material that will be useful to control engineers from the disciplines of electrical mechanical and aerospace engineering This text reference discusses rudimentary topology Banach s fixed point theorem with applications L p spaces density theorems for testfunctions infinite dimensional spaces bounded linear operators Fourier series open mapping and closed graph theorems compact and differential operators Hilbert Schmidt operators Volterra equations Sobolev spaces control theory and variational analysis Hilbert Uniqueness Method boundary element methods Functional Analysis in Applied Mathematics and Engineering begins with an introduction to the important abstract basic function spaces and operators with mathematical rigor then studies problems in the Hilbert space setting The author proves the spectral theorem for unbounded operators with compact inverses and goes on to present the abstract evolution semigroup theory for time dependent linear partial differential operators This structure establishes a firm foundation for the more advanced topics discussed later in the text   **Functional Analysis** Michel Willem,2023-01-27 This textbook presents the principles of functional analysis in a clear and concise way The first three chapters describe the general notions of distance integral and norm as well as their relations Fundamental examples are provided in the three chapters that follow Lebesgue spaces dual spaces and Sobolev spaces Two subsequent chapters develop applications to capacity theory and elliptic problems In particular the isoperimetric inequality and the P lya Szeg and Faber Krahn inequalities are proved by purely functional methods The epilogue contains a sketch of the history of functional analysis in relation to integration and differentiation Starting from elementary analysis and introducing relevant research this work is an excellent resource for students in mathematics and applied mathematics The second edition of Functional Analysis includes several improvements as well as the addition of supplementary material Specifically the coverage of advanced calculus and distribution theory has been completely rewritten and expanded New proofs theorems and applications have been added as well for readers to explore   *Applied Functional Analysis* Abul Hasan Siddiqi,2003-09 The methods of functional analysis have helped solve diverse real world problems in optimization modeling analysis numerical approximation and computer simulation Applied Functional Analysis presents functional analysis results surfacing repeatedly in scientific and technological applications and presides over the most current analytical and numerical methods in infinite dimensional spaces This reference highlights critical studies in projection theorem Riesz representation theorem and properties of operators in Hilbert space and covers special classes of optimization problems Supported by 2200 display equations this guide incorporates hundreds of up to date citations   Functional Analysis Yuli Eidelman,Vitali D. Milman,Antonis Tsolomitis,2004 Introduces the methods and language of functional analysis including Hilbert spaces Fredholm theory for compact operators and spectral theory of self adjoint operators This work presents the theorems and

methods of abstract functional analysis and applications of these methods to Banach algebras and theory of unbounded self adjoint operators   **Introduction to Functional Analysis** S C Bose,2000-02-01 This book contains all the basic facts of functional analysis relevant to a first course It is completely self contained and would be a valuable introductory text for postgraduate mathematics students   **Functional Analysis and Numerical Mathematics** Lothar Collatz,2014-05-12 Functional Analysis and Numerical Mathematics focuses on the structural changes which numerical analysis has undergone including iterative methods vectors integral equations matrices and boundary value problems The publication first examines the foundations of functional analysis and applications including various types of spaces convergence and completeness operators in Hilbert spaces vector and matrix norms eigenvalue problems and operators in pseudometric and other special spaces The text then elaborates on iterative methods Topics include the fixed point theorem for a general iterative method in pseudometric spaces special cases of the fixed point theorem and change of operator iterative methods for differential and integral equations and systems of equations and difference methods The manuscript takes a look at monotonicity inequalities and other topics including monotone operators applications of Schauder s theorem matrices and boundary value problems of monotone kind discrete Chebyshev approximation and exchange methods and approximation of functions The publication is a valuable source of data for mathematicians and researchers interested in functional analysis and numerical mathematics

A Course in Functional Analysis John B Conway,2019-03-09 Functional analysis has become a sufficiently large area of mathematics that it is possible to find two research mathematicians both of whom call themselves functional analysts who have great difficulty understanding the work of the other The common thread is the existence of a linear space with a topology or two or more Here the paths diverge in the choice of how that topology is defined and in whether to study the geometry of the linear space or the linear operators on the space or both In this book I have tried to follow the common thread rather than any special topic I have included some topics that a few years ago might have been thought of as specialized but which impress me as interesting and basic Near the end of this work I gave into my natural temptation and included some operator theory that though basic for operator theory might be considered specialized by some functional analysts   **Applied Functional Analysis** J. Tinsley Oden,Leszek Demkowicz,2017-12-01 Applied Functional Analysis Third Edition provides a solid mathematical foundation for the subject It motivates students to study functional analysis by providing many contemporary applications and examples drawn from mechanics and science This well received textbook starts with a thorough introduction to modern mathematics before continuing with detailed coverage of linear algebra Lebesque measure and integration theory plus topology with metric spaces The final two chapters provides readers with an in depth look at the theory of Banach and Hilbert spaces before concluding with a brief introduction to Spectral Theory The Third Edition is more accessible and promotes interest and motivation among students to prepare them for studying the mathematical aspects of numerical analysis and the mathematical theory of finite elements   <u>Functional analysis in modern</u>

applied mathematics Ruth F. Curtain,A. J. Pritchard,1977 <u>Functional Analysis</u> Walter Rudin,1991 This classic text is written for graduate courses in functional analysis This text is used in modern investigations in analysis and applied mathematics This new edition includes up to date presentations of topics as well as more examples and exercises New topics include Kakutani s fixed point theorem Lamonosov s invariant subspace theorem and an ergodic theorem This text is part of the Walter Rudin Student Series in Advanced Mathematics **Applications of Functional Analysis and Operator Theory** V. Hutson,J. Pym,M. Cloud,2005-02-08 Functional analysis is a powerful tool when applied to mathematical problems arising from physical situations The present book provides by careful selection of material a collection of concepts and techniques essential for the modern practitioner Emphasis is placed on the solution of equations including nonlinear and partial differential equations The assumed background is limited to elementary real variable theory and finite dimensional vector spaces Provides an ideal transition between introductory math courses and advanced graduate study in applied mathematics the physical sciences or engineering Gives the reader a keen understanding of applied functional analysis building progressively from simple background material to the deepest and most significant results Introduces each new topic with a clear concise explanation Includes numerous examples linking fundamental principles with applications Solidifies the reader s understanding with numerous end of chapter problems *Functional Analysis, Calculus of Variations and Numerical Methods for Models in Physics and Engineering* Fabio Silva Botelho,2020-11-02 The book discusses basic concepts of functional analysis measure and integration theory calculus of variations and duality and its applications to variational problems of non convex nature such as the Ginzburg Landau system in superconductivity shape optimization models dual variational formulations for micro magnetism and others Numerical Methods for such and similar problems such as models in flight mechanics and the Navier Stokes system in fluid mechanics have been developed through the generalized method of lines including their matrix finite dimensional approximations It concludes with a review of recent research on Riemannian geometry applied to Quantum Mechanics and Relativity The book will be of interest to applied mathematicians and graduate students in applied mathematics Physicists engineers and researchers in related fields will also find the book useful in providing a mathematical background applicable to their respective professional areas **Graduate Studies** ,1986

Lectures on Functional Analysis and Applications (Second Edition) V. S. Pugachev,Igor Sinitsyn,2017-11 This volume is not only intended for mathematicians who deal with applications of functional analysis but also for those having only a moderate background in mathematics in their areas of work The materials covered which includes practically all the information on functional analysis that may be necessary for those working in various areas of mathematics applications as well as the simplicity of presentation differentiates this book from others The method and style of presentation of materials make it digestible and easily understood by readers This second edition includes new and updated 300 examples and more than 500 problems to help readers understand and master the theories presented In addition necessary improvements for

bringing the contents more up to date with current fundamental and applied developments in Chapters 1 10 were made Now Chapter 9 covers nonlinear and stochastic problems and Chapter 10 devoted to elements of numerical functional analysis has been completely revised and broadened **An Introductory Course in Functional Analysis** Adam Bowers,Nigel J. Kalton,2014-12-31 Functional Analysis Kosaku Yosida,2013-03-09 The present book is based on lectures given by the author at the University of Tokyo during the past ten years It is intended as a textbook to be studied by students on their own or to be used in a course on Functional Analysis i e the general theory of linear operators in function spaces together with salient features of its application to diverse fields of modern and classical analysis Necessary prerequisites for the reading of this book are summarized with or without proof in Chapter 0 under titles Set Theory Topo logical Spaces Measure Spaces and Linear Spaces Then starting with the chapter on Semi norms a general theory of Banach and Hilbert spaces is presented in connection with the theory of generalized functions of S L SOBOLEV and L SCHWARTZ While the book is primarily addressed to graduate students it is hoped it might prove useful to research mathe maticians both pure and applied The reader may pass e g from Chapter IX Analytical Theory of Semi groups directly to Chapter XIII Ergodic Theory and Diffusion Theory and to Chapter XIV Integration of the Equation of Evolution Such materials as Weak Topologies and Duality in Locally Convex Spaces and Nuclear Spaces are presented in the form of the appendices to Chapter V and Chapter X respectively These might be skipped for the first reading by those who are interested rather in the application of linear operators **Guide to Graduate Studies in Great Britain** Jenny Knight,1974 **Fundamentals of Applied Functional Analysis** Dragisa Mitrovic,Darko Zubrinic,1997-11-12 This volume provides an introduction to modern concepts of linear and nonlinear functional analysis Its purpose is also to provide an insight into the variety of deeply interlaced mathematical tools applied in the study of nonlinear problems *Functional Analysis* R.E. Edwards,2012-10-25 The book contains an enormous amount of information mathematical bibliographical and historical interwoven with some outstanding heuristic discussions Mathematical Reviews In this massive graduate level study Emeritus Professor Edwards Australian National University Canberra presents a balanced account of both the abstract theory and the applications of linear functional analysis Written for readers with a basic knowledge of set theory general topology and vector spaces the book includes an abundance of carefully chosen illustrative examples and excellent exercises at the end of each chapter Beginning with a chapter of preliminaries on set theory and topology Dr Edwards then presents detailed in depth discussions of vector spaces and topological vector spaces the Hahn Banach theorem including applications to potential theory approximation theory game theory and other fields and fixed point theorems Subsequent chapters focus on topological duals of certain spaces radon measures distribution and linear partial differential equations open mapping and closed graph theorems boundedness principles duality theory the theory of compact operators and the Krein Milman theorem and its applications to commutative harmonic analysis Clearly and concisely written Dr Edwards s book offers rewarding reading to mathematicians and

physicists with an interest in the important field of functional analysis Because of the broad scope of its coverage this volume will be especially valuable to the reader with a basic knowledge of functional analysis who wishes to learn about parts of the subject other than his own specialties A comprehensive 32 page bibliography supplies a rich source of references to the basic literature   Applied Functional Analysis Alampallam V. Balakrishnan,2012-12-12 In preparing the second edition I have taken advantage of the opportunity to correct errors as well as revise the presentation in many places New material has been included in addition reflecting relevant recent work The help of many colleagues and especially Professor J Stoer in ferreting out errors is gratefully acknowledged I also owe special thanks to Professor v Sazonov for many discussions on the white noise theory in Chapter 6 February 1981 A V BALAKRISHNAN v Preface to the First Edition The title Applied Functional Analysis is intended to be short for Functional analysis in a Hilbert space and certain of its applications the applications being drawn mostly from areas variously referred to as system optimization or control systems or systems analysis One of the signs of the times is a discernible tilt toward application in mathematics and conversely a greater level of mathematical sophistication in the application areas such as economics or system science both spurred undoubtedly by the heightening pace of digital computer usage This book is an entry into this twilight zone The aspects of functional analysis treated here are rapidly becoming essential in the training at the advance graduate level of system scientists and or mathematical economists There are of course now available many excellent treatises on functional analysis

Unveiling the Magic of Words: A Report on "**Msc Maths Functional Analysis**"

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