



**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 $(X, \tau)$ then Prove that : (i) $(A^0)^c = \overline{A^c}$ (ii) $\overline{A} = A \cup F_p(A)$ (iii) $A^0 = A \setminus F_p(A)$ .	(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 $f : X \rightarrow Y$ , is continuous on $X$ if and only if for any subset $A$ of $X$ , $f(\overline{A}) \subseteq \overline{f(A)}$ .	(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 $X$ , $a \neq b$ implies $\overline{\{a\}} \neq \overline{\{b\}}$ .	(10)
	(b)	Let $X$ be an infinite set with co-finite topology $\tau$ on $X$ . Then show that (i) $(X, \tau)$ is compact (ii) $(X, \tau)$ is connected.	(10)

## SECTION-II

Q.5	(a)	Show that the space $l^\infty$ with respect to the norm defined by $\ x\  = \sup_{i=1}^{\infty}  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 $ d(x, M) - d(y, M)  \leq d(x, y)$ . Also show that the function $f : X \rightarrow \mathbb{R}$ , 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 $\overline{C}$ 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 $\overline{B}(0, 1) = \{x \in X : \ x\  \leq 1\}$ in a normed space $X$ , is compact then prove that $X$ has a finite dimension.	(10)
Q.8	(a)	Prove that the normed space $l^\infty$ is not separable.	(10)
	(b)	For any $a = (a_1, a_2, \dots, a_n) \in \mathbb{R}^n$ define $f_a : \mathbb{R}^n \rightarrow \mathbb{R}$ by $f_a(x) = \sum_{i=1}^n a_i x_i$ , $x \in \mathbb{R}^n$ 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\  \rightarrow \inf_{x \in M} \ x\ $ . Show that $\{x_n\}$ converges in $H$ . Give an illustrative example in $\mathbb{R}^n$ .	(10)

# Msc Maths Functional Analysis

**Xiaolong Qi**



## **Msc Maths Functional Analysis:**

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*Functional analysis in modern applied mathematics* Ruth F. Curtain,A. J. Pritchard,1977

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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

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Functional analysis arose in the early twentieth century and gradually conquering one stronghold after another became a nearly universal mathematical doctrine not merely a new area of mathematics but a new mathematical world view Its appearance was the inevitable consequence of the evolution of all of nineteenth century mathematics in particular classical analysis and mathematical physics Its original basis was formed by Cantor s theory of sets and linear algebra Its existence answered the question of how to state general principles of a broadly interpreted analysis in a way suitable for the most diverse situations A M Vershik 45 p 438 This text evolved from the content of a one semester introductory course in functional analysis that I have taught a number of times since 1996 at the University of Virginia My students have included first and second year graduate students preparing for thesis work in analysis algebra or topology graduate students in various departments in the School of Engineering and Applied Science and several undergraduate mathematics or physics majors After a first draft of the manuscript was completed it was also used for an independent reading course for several undergraduates preparing for graduate school **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

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**Guide to Graduate Studies in Great Britain** Jenny Knight,1974

**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

**The Students' Guide to Graduate Studies in the UK** ,1993

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