CONTENTS

Page

CHAPTER 2
BIOMEDICAL APPLICATIONS OF SYNTHETIC HYDROGELS

CHAPTER 3
EXPERIMENTAL METHODS AND RESULTS

Page

Page

CHAPTER 4
DISCUSSION AND CONCLUSIONS

LIST OF TABLES

Table		Page

Table		Page

Table **Page**

LIST OF FIGURES

Figure **Page**

Figure **Page**

Figure		Page

ABBREVIATIONS

cm	centrimetre
HEMA	2-hydroxyethyl methacrylate
BA	butyl acrylate
MA	methyl acrylate
IPN	interpenetrating polymer network
EGDMA	ethylene glycol dimethacrylate
P(HEMA)	poly(2-hydroxyethyl methacrylate)
PBA	poly(butyl acrylate)
PMA	poly(methyl acrylate)
P(HEMA-co-BA)	poly(2-hydroxyethyl methacrylate-co-butyl acrylate)
P(HEMA-co-MA)	poly(2-hydroxyethyl methacrylate-co-methyl acrylate)
DSC	differential scanning calorimetry
TG	thermogravimetry
FT-IR	Fourier transform infrared spectrometry
$^{\circ}C$	degree Celcius
mg	milligram
min	minute
T_g	glass transition temperature
IPT	inflection point temperature
WC	water content
EWC	equilibrium water content
WVT	water vapour transmission