UNIVERSITY OF HONG KONG
SCHOOL OF CHINESE MEDICINE
BACHELOR OF TRADITIONAL CHINESE MEDICINE EXAMINATION
2002

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1. Examination Timetable December 2002/January 2003

2. BCHM2007 Microbiology, Parasitology & Immunology – Paper II

Examination Timetable December 2002/January 2003

COURSE CODE	COURSE_TITLE	EXAM_ DATE	REMARKS	EXAM_TIME_STR
BCHM1001	Foundation theory of chinese medicine	17-Dec	Restricted	9:30 am - 12:30 pm
BCHM1002	Archaic chinese medical writings	18-Dec	Restricted	9:30 am - 12:30 pm
BCHM1003	History of chinese medicine	21-Dec	Restricted	9:30 am - 11:30 am
BCHM2001	Chinese Medicine Diagnosis	21-Dec	Restricted	9:30 am - 12:30 pm
BCHM2003	Canon of Internal Medicine	23-Dec	Restricted	9:30 am - 12:30 pm
BCHM2005	Chinese Medicine Nourishment Therapy	17-Dec	Restricted	2:30 pm - 5:30 pm
BCHM2006	Introduction to Ancient Chinese Philosophy	23-Dec	Restricted	2:30 pm - 4:30 pm
BCHM2007	Microbiology, Parasitology & Immunology (Paper I)	16-Dec	Restricted	9:30 am - 11:30 am
BCHM2007	Microbiology, Parasitology & Immunology (Paper II)	19-Dec	Sent to Medical Library	2:30 pm - 4:30 pm
BCHM3001	Golden Chest	16-Dec	Restricted	9:30 am - 12:30 pm
BCHM3002	Chinese Medicine Internal Medicine	20-Dec	Restricted	9:30 am - 12:30 pm
BCHM3003	Acupuncture & Moxibustion	18-Dec	Restricted	9:30 am - 12:30 pm

BTCM Examination Time Table in December 2002 / January 2003

Date	Time	Course Code	Description	Venue
Dec 16 MON	9:30 am - 11:30 am	BCHM2007	Microbiology, Parasitology & Immunology (paper I)	Rm 201 Main Bldg.
Dec 16 MON	9:30 am - 12:30 pm	BCHM3001	Golden Chest	Rm 201 Main Bldg.
Dec 16 MON	6:30 pm - 8:30 pm	YJAP0001	Introduction to Japanese culture	Loke Yew Hall
Dec 17 TUE	2:30 pm - 5:30 pm	BCHM2005	Chinese Medicine Nourishment Therapy	Rm 6 Library Ext.
Dec 18 WED	9:30 am - 12:30 pm	BCHM3003	Acupuncture & Moxibustion	Rm 167 Main Bldg.
Dec 19 THU	2:30 pm - 4:30 pm	BCHM2007	Microbiology, Parasitology & Immunology (paper II)	Rm 103 Main Bldg.
Dec 20 FRI	9:30 am - 12:30 pm	BCHM3002	Chinese Medicine Internal Medicine	Rm 142 Main Bldg.
Dec 21 SAT	9:30 am - 12:30 pm	BCHM2001	Chinese Medicine Diagnosis	Rm 7 Library Ext.
Dec 23 MON	9:30 am - 12:30 pm	BCHM2003	Canon of Internal Medicine	Rm 151 Main Bldg.
Dec 23 MON	2:30 pm - 4:30 pm	BCHM2006	Introduction to Ancient Chinese Philosophy	Rm 2 Library Ext.

Printed/Written Materials/Special Notes

BCHM2006 Introduction to Ancient Chinese Philosophy

This is an open book examination. Candidates may bring to their examination any printed/written materials.

End of time-table

BChinMed Examination Time Table in December 2002 / January 2003

Date	Time	Course Code	Description	Venue
Dec 16 MON	9:30 am - 10:30 am	CBIO0004	Putonghua for chinese medicine students	Rm 223 Knowles Bldg.
Dec 16 MON	6:30 pm - 8:30 pm	YJAP0001	Introduction to Japanese culture	Loke Yew Hall
Dec 17 TUE	9:30 am - 12:30 pm	BCHM1001	Foundation theory of chinese medicine	Rm 6 Library Ext.
Dec 18 WED	9:30 am - 12:30 pm	BCHM1002	Archaic chinese medical writings	Rm 167 Main Bldg.
Dec 21 SAT	9:30 am - 11:30 am	BCHM1003	History of chinese medicine	Rm 6 Library Ext.
Dec 23 MON	6:30 pm - 8:30 pm	YFIN0001	Understanding financial markets	Loke Yew Hall
Dec 27 FRI	6:30 pm - 7:30 pm	PHIL1006	Elementary logic	Loke Yew Hall

Electronic Calculators

Candidates may use any calculator which fulfils the following criteria:

(a) it should be self-contained, silent, battery-operated and pocket-sized; and

(b) it should have numeral-display facilities only and should be used only for the purpose of calculation.

For candidates sitting BEng papers, they should ensure that their calculators would also satisfy the following additional criteria:

(c) it should not have any printing device, alphanumeric keyboard, or graphic display; and

(d) it should not contain any recorded data or program.

It is the candidate's responsibility to ensure that the calculator operates satisfacorily and the candidate must record the name and type of the calculator on the front page of the examination scripts. Lists of permitted/prohibited calculators will no longer be made available to candidates for reference, and the onus will be on the candidate to ensure that the calculator used will not be in violation of the criteria listed above.

Candidates sitting the papers listed below may use any calculators that satisfy the above requirements:

YFIN0001 Understanding financial markets

End of time-table

NOT TO BE TAKEN AWAY

The University of Hong Kong

School of Chinese Medicine

Bachelor of Traditional Chinese Medicine

BCHM2007 Microbiology, Parasitology & Immunology

Paper II

Time Allowed: 2 hours

Date: 19 December 2002 (Thursday) Time: 2:30 – 4:30p.m.

GENERAL INSTRUCTIONS:

1. This examination paper comprises 4 pages (including covering page).
2. Answer ***BOTH*** Part A and Part B.
3. This written examination carries 75 out of a total of 100 marks for this course.
4. Make sure that you enter your ***UNIVERSITY No.*** in the space provided below:

UNIVERSITY NO. _____

Part A: Multiple choice questions (True/False format)

Answer **ALL** 10 questions. All questions carry **EQUAL** marks (2.5 marks each). Please allow up to 3 minutes for each question. Put your answers in the boxes provided.

Directions: **Each question below has a main stem followed by five items, each of which should be identified as true (T) or false (F)**

1. Non-specific immunity

	Non-specific immune mechanisms do NOT include:	**Answer**
1a	NK cell-mediated killing	
1b.	Phagocytosis	
1c.	acute phase proteins	
1d.	antibody-mediated neutralization	
1e.	complement activation	

2. Lymphocyte differentiation and maturation

	During T cell differentiation and maturation:	**Answer**
2a.	$CD4^- CD8^-$ cells differentiate into $CD4^+ CD8^+$ cells	
2b.	mature T cells can develop into $CD4^- CD8^-$ cells after antigenic stimulation	
2c.	$CD4^+$ T cells differentiate into cytotoxic T cells	
2d.	immunoglobulin heavy chain genes undergo rearrangement at $CD4^- CD8^-$ cell stage	
2e.	early T cell differentiation occurs in thymic medulla	

3. Immune effector mechanism

	Cell-mediated immunity is effective in disposing of:	**Answer**
3a.	extra-cellular pathogens	
3b.	virus-infected cells	
3c.	free viruses	
3d.	pathogen-derived toxins	
3e	immune complexes	

4. T helper cell and cytokine

	Which of the following is a TH1 cytokine?	**Answer**
4a.	IL-4	
4b.	IL-10	
4c.	IL-13	
4d.	TGF-β	
4e.	IFN-γ	

5. Lymphocyte re-circulation and homing

	Lymphocyte re-circulation and homing are mediated by:	Answer
5a.	chemokines	
5b.	MHC molecules	
5c.	cell adhesion molecules	
5d.	Fc receptors	
5e.	antigen receptors	

6. Opportunistic infection

	An opportunistic pathogen is a microorganism that causes infection:	Answer
6a.	in a random manner	
6b.	only in individuals without vaccination against the pathogen concerned	
6c.	only in individuals with compromised host defense mechanism(s)	
6d.	only in individuals with MHC deficiency	
6e.	only in individuals with AIDS	

7. Allergy

	Allergic diseases include:	Answer
7a.	allergic rhinitis	
7b.	asthma	
7c.	food-induced anaphylaxis	
7d.	chronic urticaria	
7e.	atopic dermatitis	

8. Transplantation

	The key cell type that mediates acute transplantation rejection is:	Answer
8a.	thymocyte	
8b.	macrophage	
8c.	mast cell	
8d.	neutrophil	
8e.	mature T cell	

9. Immunity and aging

	Advanced age is associated with:	Answer
9a.	increased numbers of naïve T-cells	
9b.	increased DNA stability of lymphocytes	
9c.	increased lymphocyte apoptosis	
9d.	reduced antigen-induced cytokine production	
9e.	higher antibody responses to vaccination	

10. Immunity and lifestyle

	Regular moderate exercise, compared to a sedentary lifestyle, is associated with:	**Answer**
10a.	higher cytotoxic T-cell function	
10b.	lower T-cell cytokine production	
10c.	higher NK cell function	
10d.	lower macrophage function	
10e.	higher autoantibody production	

Part B: Short Answer Questions

Answer **FIVE** questions only on the answer book provided. All questions carry **EQUAL** marks (10 marks each). Please allow 15 minutes for each question.

1. Briefly describe the three phases of specific immune responses.

2. List at least FIVE applications of antibody in biomedical research.

3. Describe how T and B cells differ in their processes and requirements for antigen recognition.

4. Give the definitions of (a) naïve lymphocyte, (b) armed effector lymphocyte, and (c) memory lymphocyte; and describe briefly the basic requirements for their activation.

5. Give the definition of protective immunity; and explain briefly how vaccination may protect us from infectious diseases.

6. List and briefly explain THREE approaches for minimizing acute graft rejection.

7. Give examples and describe briefly how break down of immunological balance may cause diseases.

~END OF PAPER~