

**OLLSCOIL NA hEIREANN, GAILLIMH**  
**NATIONAL UNIVERSITY OF IRELAND, GALWAY**

**Semester II Examinations, 2003/2004**

Exam Code(s)	<u>1NG1 and 1NG2</u>
Exam(s)	<u>First Bachelor of Nursing Science (General)</u> <u>First Bachelor of Nursing Science (Psychiatric)</u>
Module Code(s)	<u>NU128</u>
Module(s)	<u>Anatomy, Physiology and Pharmacology</u>
Paper No.	<u>1</u>
Repeat Paper	<u>Special Paper</u>
External Examiner(s)	<u>Dr. Shelagh Sparrow</u>
Internal Examiner(s)	<u>Prof. Michael Kane</u> <u>Dr. Karen Doyle</u> <u>Dr. Aideen Henry</u> <u>Dr. Leo Quinlan</u> <u>Dr. Madhavi Salgaonkar</u> <u>Dr. John Kelly</u>

**Instructions:**

Answer eight (8) questions in total, **two** from Section A, **four** from Section B and **two** from Section C.

Use a separate answer book for each section.

All questions carry an equal mark.

Duration	<u>3 hours</u>
No. of Answer books	<u>3</u>

**Requirements:**

Handout	<u>                    </u>
MCQ	<u>                    </u>
Statistical Tables	<u>                    </u>
Graph Paper	<u>                    </u>
Log Graph Paper	<u>                    </u>
Other Material	<u>                    </u>

No. of Pages	<u>3</u>
Department(s)	<u>Centre for Nursing Studies</u>

## **SECTION A ANATOMY**

Please answer **TWO** questions from this section. Allow 20 minutes for each answer. All questions carry an equal mark.

1. Describe in general the anatomy of the urinary bladder.
2. Describe the anatomy of the heart.
3. Describe the anatomy of the uterus
4. Describe the tracheobronchial tree.

## **SECTION B PHYSIOLOGY**

Please answer **FOUR** questions from this section. Allow 20 minutes for each answer. All questions carry an equal mark.

5. Write a short account on the digestion of carbohydrates.
6. Discuss the process of glomerular filtration.
7. Describe the muscles involved in respiration at rest. What muscles are recruited for forcible expiration?
8. Describe the effects of long-term cigarette smoking on the lungs, including the effect on the large and small airways, on the alveoli and on lung function.
9. Outline the short-term control of blood pressure.
10. Describe the process of atherosclerosis.

## **SECTION C PHARMACOLOGY**

Please answer **TWO** questions from this section. Allow 20 minutes for each answer. All questions carry an equal mark.

11. Write a short account on the pharmacokinetic properties of drugs.
12. Write a short account of how drugs can affect adrenoceptors, illustrating your answer with examples of clinically useful drugs that target the adrenoceptor.

**/Continued Overleaf**

13. Write notes on **two** of the following:
- a) Clinical phases of drug development
  - b) Adverse drug reactions
  - c) Agonists and antagonists
14. Write a short account on **EITHER** diuretic drugs **OR** the pharmacological treatment of ulcers.

**END**