UNIVERSITI UTARA MALAYSIA

FINAL EXAMINATION
SECOND SEMESTER 2005/2006 SESSION

CODE/COURSE : GDK3223 MATHEMATICS TEACHING METHOD
DATE : 16 APRIL 2006 (SUNDAY)
TIME : 9.00 – 11.30 a.m. (2 ½ HOURS)
VENUE : DKG 3/2

INSTRUCTIONS:
1. This exam paper contains TWO (2) sections in FIVE (5) printed pages, excluding the cover page.
2. Section A contains EIGHT (8) structured questions. Section B contains TWO (2) essay questions. Answer ALL questions.
3. Answer Section A on the question paper.
4. Answer Section B on the given answer sheets.
5. You are NOT ALLOWED to remove the exam paper from the examination hall.

MATRIC NO. : ____________________________

(in words) (in figures)

IDENTITY CARD NO.:

LECTURER : EN. ARSAYTHAMBY VELOO

GROUP: A  TABLE NO.:

DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO
SECTION A (60 marks)

INSTRUCTION:
Answer ALL questions.

1. Give FOUR (4) ways to define the meaning of mathematics.

(i) ____________________________________________

(ii) __________________________________________

(iii) _________________________________________

(iv) _________________________________________

(8 marks)

2. Explain briefly TWO (2) differences between the term Scheme of Work and Daily Scheme of Work in Mathematics.

(i) __________________________________________

(ii) _________________________________________

(8 marks)
3. Name **FOUR (4)** duties of Mathematics Panel Head in the school.

(i) ____________________________________________

(ii) __________________________________________

(iii) __________________________________________

(iv) __________________________________________

(8 marks)

4. List **FOUR (4)** changes in the secondary school Mathematics Curriculum in Malaysia since year 1940.

(i) ____________________________________________

(ii) __________________________________________

(iii) __________________________________________

(iv) __________________________________________

(8 marks)
5 Give **TWO (2)** advantages of using calculator in Mathematics.

(i) 

(ii) 

(8 marks)

6 Explain the **FOUR (4)** techniques used by Polya Model (1957) to solve Mathematical problem.

(i) 

(ii) 

(iii) 

(iv) 

(10 marks)
Give **SIX** (6) levels of Mathematics questions.

(i)

(ii)

(iii)

(iv)

(v)

(vi)

(6 marks)

Describe Inductive and Deductive methods which are suitable in teaching Mathematics.

(i)

(ii)

(4 marks)
SECTION B (40 marks)

INSTRUCTION:
Answer ALL questions.

1. Choose ONE (1) of the following topics and prepare a daily lesson plan for a 40-minute class in Form Four.
   (a) Trigonometry
   (b) Number Base
   (c) Statistics
   (25 marks)

2. According to Thorndike (1911), the success of the connecting (learning) process depends on individual’s learning readiness, number of trainings and effective trainings. Based on this, Thorndike successfully constructed three laws of learning.

   Describe how these THREE (3) laws can be applied in the teaching and learning of Mathematics.
   (15 marks)

END OF EXAM PAPER