UNIVERSITI UTARA MALAYSIA

FINAL EXAMINATION
SECOND SEMESTER 2005/2006 SESSION

CODE/COURSE : GDC3023 ISU-ISU DALAM PENDIDIKAN MATEMATIK
DATE : 10 APRIL 2006 (MONDAY)
TIME : 9:00 – 11:30 a.m. (2 ½ HOURS)
VENUE : BK6 (FPAU)

INSTRUCTIONS:
1. This exam paper contains NINE (9) questions in TWO (2) printed pages excluding the cover page.
2. Section A contains FIVE (5) questions and section B contains FOUR (4) questions.
3. Answer ALL questions in SECTION A and any THREE (3) questions in SECTION B.
4. Write your answers in the answer sheets provided. Answers to each question should begin on a new page.
5. You are NOT ALLOWED to remove the exam paper from the examination hall.

MATRIC NO. : ____________________________ (in words) (in number)
IDENTITY CARD NO. : ________________
LECTURER : MR. MOHAMMAD HASNAN HASSAN
GROUP : A DESK NO. : ____________

DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO

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SECTION A (40 marks)

INSTRUCTIONS:
Answer ALL questions.

1. “Intelligence is an adaptation...to say that intelligence is a particular instance of biological adaptation...”
   a) State the person that mentioned the statement above. (2 marks)
   b) What did he mean about the statement? State an example. (6 marks)

2. Explain what you understand about the word mathematics. (8 marks)

3. Students should be taught the method for solving mathematical problems in the correct and proper way. Discuss the statement given with appropriate examples. (8 marks)

4. Explain TWO (2) roles of Mathematics in developing Malaysian society. (8 marks)

5. (a) What is mathematical axiom? (2 marks)
   (b) State TWO (2) mathematically undefined elements. Give an example for each. (6 marks)
SECTION B (60 marks)

INSTRUCTIONS:
Answer THREE (3) questions ONLY.

1. Teaching Mathematics in English has positive impacts on the process of Mathematics teaching and learning in Malaysian schools. Discuss this statement. (20 marks)

2. Performance in Mathematics among students in Malaysian schools is still low in both quality and quantity aspects (National Conference in Mathematics Education, 2002). Discuss the issues and state relevant examples. (20 marks)

3. By giving appropriate examples, explain how you would deliver knowledge on TWO (2) of the following topics for a 30 minute class each.
   a. Fraction (Primary level)
   b. Linear Equation (Secondary level)
   c. Logarithmic Function (Secondary level) (20 marks)

4. Discuss the roles of Mathematics teachers in implementing effective teaching and learning in school. (20 marks)

END OF EXAM PAPER