GATITU SECONDARY SCHOOL

COMPUTER EXAMINATIONS 2015 MID TERM EXAMS OF TERM 1 F3

ADM:…………………. NAME: ………………………………………………………………………………………………………………………………….CLASS:……

1. Explain the reasons why binary number system is preferred in use for computers (3mks)

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1. Convert the following base 10 numbers to binary (4mks)
   1. 67710

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* 1. 9414.8010

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1. Convert the following binary numbers to their denary equivalents (4mks)
   1. 0111001101012

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1. What is the role of a primary key in database management software? (1mk)

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1. Find the value of X in the equations below:
   1. 1368=X10 (2mks)

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* 1. BDA616=X8 (2mks)

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* 1. 10100101112=X16 (2mks)

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* 1. D94A16=X10 (2mks)

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* 1. 7218=X2 (2mks)

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1. Use direct method to subtract the following questions
   1. 1001112 – 100112 = (2mks)

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* 1. 100002 – 1112 = (2mks)

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* 1. 100111102 – 01010102 = (2mks)

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1. Work out the binary additions:
   1. 11101112 + 1102 = (2mks)

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* 1. 1012 + 1002 = (2mks)

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* 1. 11012 + 101010102 = (2mks)

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1. Using ones compliment, perform the following arithmetic operations
   1. 1410 – 710 = (2mks)

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* 1. 2810 - 1210 = (2mks)

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1. Using twos compliment, perform the following arithmetic operations
   1. 310 - 110 = (2mks)

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* 1. 610 – 810 = (2mks)

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1. Discuss the use of the following database features: (3mks)
   1. Tables\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Forms\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Queries\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. State five factors to consider when selecting computer software: (5mks)

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