ST. MARGARET COLLEGE MAKERERE

BEGINNING OF TERM II EXAMINATIONS 2012 S.1 MATHEMATICS

Time	:	1	1/2	hrs

INSTRUCTION: Attempt all questions.

- 1. Find the HCF and LCM of
- i) 6, 12, 24
- ii) 24, 30, 48
- 2. Express the following as a product of its prime factors
- i) 100
- ii) 108
- 3. Use a number line to workout:
- i) (+3) (+ 5)
- ii) (-6) +(-8)
- 4. Convert the following to the required base
- i) 1234_{five} _____ base ten
- ii) 1234_{six} _____base four
- 5.a) List down the first 20 natural numbers
- b) List down the ascending order (from small to biggest)
- i) -2, 0,-3,11,-4
- ii) -1, -5, -2, 0,7
- 6.a) Change to percentage
- i) <u>21</u> 2
- ii) <u>4</u> 5
- ii) <u>31</u> 4
- b). Reduce to the lowest terms
- i) <u>42</u> 84

- ii) <u>12</u> 52
- 7. Simplify: 2 ½ 1 ¼ 10 ½ -:- 6
- 8. On the same graph paper draw pair of axes and plot the following points on it A(0,0), B(2,2), C(6,2) and D(4,0) Join these points in order and name the figure formed.
- 9. Given P= (a set of vowels)

Q = (a set of alphabetic letters between a and I)

- Find i) n(P) ii) n(Q)
- iii) n(PnQ)
- 10. Fill in the blank spaces.

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