MATH 00120



MATH 00120: BASIC MATHEMATICS

STREAM: Y1 S1

TIME: 2 HOURS

DATE: 08/2022

DAY: THURSDAY 12:00 P.M - 2:00 P.M

INSTRUCTIONS:

1. Do not write anything on this question paper.

2. Answer ALL Questions in section A (Compulsory) and any other TWO Questions in section B.

SECTION A (40MARKS)

1.	Briefly describe the following mathematical logics:	
	(a) Set theory.	(2.5marks)
	(b) Model theory.	(2.5marks)
	(c) Recursion theory.	(2.5marks)
	(d) Proof theory.	(2.5marks)
2.	State the symbolic forms of mathematical logic.	(5marks)
3.	Outline the formulas for solving a number system.	(5marks)
4.	Briefly explain the importance of number systems.	(10marks)
5.	Discuss the difference between a Relation and a Function.	(10marks)

SECTION B (30 MARKS)

6. Describe the following in relation to sets in mathematics:

	(a) Semantic form.	(5marks)
	(b) Roaster form.	(5marks)
	(c) Set builder form.	(5marks)
7.	Discuss the three different categories of permutation.	(15marks)

8. Explain the types of numbers with examples. (15marks)