BABCOCK UNIVERSITY, ILISHAN -- REMO, OGUN STATE MATH 101, MID - SEMESTER EXAMINATION, 2014/2015 SESSION

INSTRUCTION: ATTEMPT ALL QUESTIONS, TOTAL MARKS: 15 TIME ALLOWED: 45MINS

QUESTION ONE

- In a class of 60 students, 22 offered French, 22 offered English, 36 offered History, 8 offered French and English, 10 offered English and History, 12 offered French and (i) History while 6 did not offer any of the three subjects. Represent this information in a Venn diagram
- English and French only (ii)
- Only one subject. (iii)
- Exactly two subject. (iv)

(5 marks)

QUESTION TWO

- (a) Show that $n(A \cup B) = n(A) + n(B) (A \cap B)$,
- (b) Represent the following using Venn diagram
 - A B, (ii) A' (i.e. A compliment), (iii) $A \subset B$

QUESTION THREE

(a) Using completing the square method solve $ax^2 + bx + c = 0$, hence use your result to solve $x^2 + 6x - 9 = 0$.

(5 marks)

(5 marks).