NEW ERA HIGH SCHOOL YANBITA DOGARAWA

FIRST TERM EXAMINATION MATHEMATICS JSS3

SECTION A OBJECTIVE: answer all questions

1.convert 1264eight. (a)692 (b)926 (c)629 (d)296

2.convert 10111two to base ten\_\_\_\_\_\_\_

3.binary number are numbers with -------and-----

4.1101011 are number in base -------

5.computer circuit can be in sate either off(0) or \_\_\_\_\_\_\_

6.in addition with binary numbers 0+0= \_\_\_\_\_\_

7.in addition with binary numbers 1+1= --------

8.in multiplication with binary 1x1= ------

in multiplication with binary numbers 1x0= ------

9.----- is the sum of 12 and 9

10.------ is the positive different between 19 and 8

11.find the product of 4/5 x 5/2

12.the sum of 0.9 and the product of 1.7 and 3 is ------ (a)6 (b)5 (c)4 (d)3

13.the expression of 3(2x-y)means (a)three times (2x-y) (b)four timrs (2x-y) (c)five times (2x-y) (d)non of the above

14.to factories is to write it as a product of it ------ (a)factors (b) product (c) factors and it product (d)non of the above

15.a binomial expression has ------ terms

16.the expression 3(2x-y) is ----- (a)6x-3 (b)6x-4 (c)6x-6 (d)5x

17.the term d^3 is called --------

18.solve: convert 100110two to base ten

(2marks)

19.the formula area of a triangle is --------

20.the area of a rectangle is -------

21.the formula area of a circle is------

**section B Essay: answer 3 questions only**

1a. convert the following number to base ten

1264eight

110110two

1b.with aid of diagrams give out 3 area of a basic plan shape with formula

2.calculate the following

a. 1001

+1011

b. 110

x101

c. 1110

- 101

3) a. find the sum of all numbers between 10 and 20

b.find the positive different between -7 and -12

c.find the difference between 63 and the product 10 and 5

4a. factorise 2d^3 + d^2(3d-1).

b. remove bracket from:

I. -2n(7y-4z)

Ii .2(x-y)

5a.if the area of a trapezium is 52 cm2 and it parallel sides are 7cm and 9cm respectly, find the distance between the parallel sides.

5b.with a pair of compass and ruler construct angle 90° and 45°