**SS 2 ENGLISH STUDIES HOLIDAY ASSIGNMENT**

**Answer ALL questions**

Answer one question only. Your answer should not be less than 450 words. Type and Spiral Bind.

1. Write a story that illustrates the saying “NO CONDITION IS **PERMANENT**.”
2. Write an article for publication on the topic, “HOW AGRICULTURE CAN CONTRIBUTE TO THE NATION’S ECONOMY”
3. You are the chief speaker in a debate on the topic “RURAL LIFE IS BETTER THAN CITY LIFE”. Write your speech For or Against the topic.

**SS 2 MATHEMETICS HOLIDAY ASSIGNMENT**

**Answer ALL questions**

1. Given that , find the value of when (A) (B) (C) (D)
2. Given that , then (A) (B) (C) (D) 9.
3. Round off 3.2863 to 3 significant figures. (A) 3.28 (B) 3.39 (C) 3.29 (D) 3.286
4. If in a triangle ABC and a=8cm. Find the value of b. (A) 4.38 (B) 5.46 (C) 5.72 (D) 7.01
5. Given that and , evaluate, leaving your answer in surd form. (A) 3 (B) (C) (D)
6. Find the value of in the figure below

4 6

m

8

(A)8 (B) 10 (C) 12 (D) 15

1. Simplify , (A) 2 (B) 3 (C) 4 (D) 5
2. Calculate the angle marked from the figure below :

o

(A) (B) (C)(D)

1. Given that the mean of is 15 .Find the value of . (A) 23 (B) 25 (C) 27 (D) 30
2. The equation whose roots are and is (A), (B)

(C) (D)

1. A factory employs 50 workers , 40 of whom are paid ₦450.00 per hour and 10 who are paid per hour. What is the average hourly rate of payment. (A) ₦245.00 (B) ₦ 295.00(C) ₦360.00 (D) ₦480.00
2. Simplify . (A) 4 (B) 2 (C) 1 (D)
3. The seventh term in the progression 27,81,243,….. is ? (A) (B) (C) (D)
4. Calculate the value of the angle marked in the diagram below:

2X

60

X

(A) (B) (C) (D)

1. Simplify (A) 5 (B) 4 (C) 3 (D) 2
2. Each of the interior angle of an eight sided polygon is equal to? (A) (B) (C) (D)
3. Given that and , evaluate . (A) 9.7 (B) 6.3 (C) 3.4 (D) 2.3
4. What does represent in the triangle below:

6 7.5

4

(A) 7

(B) 6

(C) 5

(D) 3.5

1. If ,find the value of (A) 7 (B) 5 (C) 4 (D) -4
2. The 10th and 15thterm of an A.P are and respectively .What is the sum of the first 20 terms? (A) (B) (C) (D)
3. Find the value of in . (A) (B) (C) (D)
4. The 8th term of the A.P -4, -2 ,0 ……. Is (A) 12 (B) 10 (C) (D)
5. The number 2,5,7,8,10,15 and 13 are represented by a pie chart. The sum of the angle representing all numbers equal to or greater than 8 is (A) (B) (C) (D)
6. Given that is a perfect square , what is the value of (A) 8 (B) 6 (C) 4 (D) 2
7. In the diagram below ,what is

9cm

7cm

(A) (B) (C) (D)

1. If , find the value of

(A) 236.4 or 303.6 (B) 278.4 or 302.6

(C) 217.4 or 311.6 (D)234.6 or 342.4

1. A man measured his weight as 63kg instead of 65kg. What is the percentage error? (A) 10% (B) 8% (C) 5% (D) 3%
2. Find the coefficient of in (A) 0 (B) 4 (C) 12 (D) 13
3. Find the value of and in the arithmetic progression . Therefore (A) (B) (C) (D)
4. Use table solve . (A) 7.534 (B) 0.7534 (C) 0.07534 (D) 0.007534

116

r

(A) (B) (C) (D)

1. From the figure below, calculate the value of .
2. From the figure below, find angle

r

(A) (B) (C) (D)

1. A positive number of two digits,the sum of the digits is 15. If the digits are interchanged the number is increased by 9. (A) 67 (B) 78 (C) 87 (D) 98
2. The nth term of the A.P 10,3,-4,….…. is (A) 16-7n (B) 18-7n (C) 18+7n (D) 17-7n
3. What should be added to to make it perfect square? (A) 4 (B) (C) 49 (D)
4. Find the sum of infinite of the sequence 3,2,……. (A) 8 (B) 9 (C) 10 (D) 18
5. The sum of the first five terms of the G.P 3,-6,12 is.. (A) 93 (B) 33 (C) 31 (D) 28
6. If , find the roots of equation. (A) (B) (C)(D)
7. The nth term of the sequence is given by . What is the 4th term? (A) (B) (C) (D)
8. The sum of the first eight terms of the A.P is (A) (B) (C) (D)
9. Given that and are the roots of the equation . What is the value of (A) 8 (B) 6 (C) 4 (D) 2
10. Find the mode of the numbers 16,14,,15 and 11 if the mean is 14. (A) 13 (B) 14 (C) 15 (D) 16
11. What is the value of angle A, below. Given that is the diameter, if angle B=

A

B

(A) (B) (C) (D)

C

1. One of the roots of the equationis 3.The value of is the other roots . (A) (B) (C) 2 (D)
2. Given that, the age of six children are 15,14,14,15,12 and 18. What is the mean age? (A) 13.4 (B) 14 (C) 14.7 (D) 15
3. Solve the equation for the value of . (A) 3 (B) 4 (C) 6 (D) 8
4. What is the ratio of in the figure below

3

2

(A) 2:3 (B) 3:2 (C) 3:5 (D) 5:3

3

2

(A) 2:3 (B) 3:2 (C) 3:5 (D) 5:3

3

2

(A) 2:3 (B) 3:2 (C) 3:5 (D) 5:3

1. The root of the quadratic equation is given by …… (A) (B) (C) - (D)
2. What is the value of . (A) 0.6947 (B) 0.6966 (C) 0.7432 (D) 0.8234
3. The first term of an A.P is 19 , if the difference between the 3rd and the 6th term is 18.the 10th term is ? (A) 85 (B) 79 (C) 73 (D) 67.

**THEORY: ANSWER ALL QUESTIONS IN THIS PART**

**Show all the required workings.**

1. A) If ,the representation of is?

B) Simplify

1. A) Simplify . B) Given that ,, .Find (a) PQ (b) Q R
2. (A) The roots of a quadratic equation are and 3.Find the equation. (B) Simplify as a single fraction.
3. (A) The exterior angles of a polygon are marked as shown below, what does represents?

4x 2x

5x 3x

4x

(B) Solve leaving your answer in surd form.

1. Generate the quadratic equation formula from the equationHence,find in .
2. The first term of an A.P is 6 and fifth term is 18.Find the numbers of terms in the series having a sum of 162..
3. From the table, it shows the distribution of students marks scored in a class. If the average mark is how many students scored 4marks?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Scores | 1 | 2 | 3 | 4 | 5 |
| Frequency | X+2 | x-1 | 2x-3 | X+4 | 3x-4 |

1. Draw the graph of the equation , for the range of such that Using a scale of 2cm to 5unit on y-axis and 2cm to 1unit on x-axis.

From your graph determine the following (a) roots of the equation.(b) value of when (c)what is the corresponding value of at the maximum or minimum point..

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Age | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 |
| No | 4 | 3 | 1 | 7 | 2 | 3 |

1. Using the table below of age distribution, Calculate the mean deviation and standard deviation given that the mean of the distribution is 5years .