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SENIOR HIGH SCHOOLDEPARTMENT
KRISTINE F. FUNTECHA

1ST FINAL EXAMINATION
OCTOBER 24 & 26, 2023
MATH 10

NAME: _____ Grade & Section: _____ Score: _____

MULTIPLE CHOICE: Read the following sentence carefully. Encircle the letter of the correct answer

1. What comes next in the Pattern A, E, I, M, Q, _____?
       a. R   b. S   c. T   d. U

2. Find the missing letter to complete the pattern Z, W, T _____, N?
       a. Q   b. P   c. O   d. N

3. It is a sequence whose consecutive terms have a common difference.
       a. Arithmetic Sequence   c. Harmonic Sequence
       b. Geometric Sequence   d. Fibonacci Sequence

4. It is the terms between two consecutive terms in an arithmetic sequence.
       a. Arithmetic Sequence   c. Harmonic Sequence
       b. Arithmetic mean   d. Fibonacci Sequence

5. It is the sum of the terms of an arithmetic Sequence.
       a. Arithmetic Sequence   c. Arithmetic Series
       b. Arithmetic mean   d. Fibonacci Sequence

6. What is the next term in the sequence 2, 4, 6, 8, 10?
       a.11   b.12   c.13   d.14

7. What is the next three terms in the sequence 5, 10, 15?
       a.20, 25, 30   b.20,30,40   c.20,40,60   d. 21,22,23

8. In the sequence 1,4,7,10,13, what is the common difference?
       a. 1   b.2   c.3   d.4

9. Is the sequence $3, \frac{3}{2}, 2, \frac{5}{2}, 3, \cdots$ an arithmetic Sequence?

       a. Yes, because it has a common ratio of $\frac{1}{2}$.   C. Yes, because it has a common ratio of 1.5

       b. Yes, because it has a common difference of $\frac{1}{2}$.   D. Yes, because it has a common difference of 1.5

10. What is the sum of 1+2+3+4+5+6+7+8+.....20?
       a. 210   b.211   c.212   d.213

11. Insert three Arithmetic means between 18 and 30
       a. 20, 23, 28   c. 22, 25, 27
       b. 21, 24, 27   d. 12, 24, 26

12. Kristine wants to find the fourth term of a sequence -12,-7,-2,-3 which concept will you suggest to be used?
       a. Arithmetic series   c. Harmonic
       b. Arithmetic Sequence   d. Fibonacci

13. What is the 10th term of the sequence 18, 21,24.?
       a. 39   b.40   c.41   d. 42

14. Kristine used a synthetic division to find the quotient if $(5x^2-16x +4x^3-3)$ is divided by (x-2). She obtained -19 as remainder, her solution is shown below.

   2⌋   5   -16   4   -3
               10   -12   -16
   _____
         5   -6   -8   -19

   What is the error?
       a. The sign of the divisor was not change
       b. The terms of the polynomial were not arrange according to decreasing power of x.
       c. The sum entries in the third row are incorrect.
       d. The numerical coefficient of the first row were not properly written.

15. It is a sequence in which each term is obtained by multiplying the preceding term by a fixed number.
       a. Arithmetic series   c. Geometric Sequence
       b. Arithmetic Sequence   d. Geometric Series

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