1 mark questions : Some models

1) The difference between 5 th term and 10 th term of an arithmetic sequence is 18. What is the difference between 20 th term and 30 th term of this sequence .

 (a) 100 (b) 50 (c) 180 (d) 36

2) Algebraic form of an arithmetic sequence is $3n + 4$. What is the difference between the first and last of eight consecutive terms of this sequence ?

 (a) 21 (b) 50 (c) 18 (d) 36

3) The angles of a 15 sided polygon are in an arithmetic sequence.Which angle comes in the middle ?

 (a) 130 (b) 156 (c) 118 (d) 65

4) How much the sum of first 10 even numbers is greater than the sum of first 10 odd numbers?

 (a) 10 (b) 11 (c) 20 (d) 25

5) What is the mean of first 10 odd numbers?

 (a) 12 (b) 11 (c) 10 (d) 25

6) There are 11 multiples of 9 below 100. What is the median of these numbers ?

 (a) 9 (b) 27 (c) 38 (d) 54

7) Sum of first n even numbers is $n(n + 1)$. How many odd numbers from the beginning in the order makes the mean 51

 (a) 50 (b) 60 (c) 39 (d) 54

8) Angles of a right triangle are in an arithmetic sequence .Which is the smallest angle ?

 (a) $50°$ (b) $60°$ (c) $30°$ (d) $40°$

9) Algebraic form of an arithmetic sequence is $2 - 3n$. What is its cxommon difference ?

 (a) 2 (b) 3 (c) -2 (d) -3

10) At what position 2 comes in the sequence $\frac{1}{11}, \frac{2}{11}, \frac{3}{11} \cdots$ as a term ?

 (a) 21 (b) 32 (c) 22 (d) 17

11) Sum of the first and 25 th terms of an arithmetic sequence is 56. What is its 13 term ?

 (a) 21 (b) 28 (c) 14 (d) 30

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