



PRAGATHI...THE SCHOOL

Dakshina Bharatha Mahila Samaja Premises,
Whitefield Railway Station Road, Kadugodi, Bangalore - 560067

WEEKLY TEST

Date : 12/10/2022

GRADE 10TH (CBSE)
Mathematics

Max Marks: 20

I Answer the following questions of 1 mark each

1. The list of numbers -10, -6, -2, 2, ...is

(a) an AP with $d = -16$

(b) an AP with $d = 4$

(c) an AP with $d = -4$

(d) not an AP

2. The common difference of an AP is 5, then the value of $a_{18} - a_{13}$ is:

(a) 5

(b) 25

(c) 20

(d) 30

II Answer the following questions of 2 mark each

3. A man receives Rs. 60 for the first week and Rs. 3 more each week than the preceding week. How much does he earn by the 20th week?

4. Write first four terms of the AP, when first term is 1.25 and common difference is -0.25

5. If an AP has 8 as the first term, -5 as the common difference and its first 3 terms are 8, A, B, then find A+B

6. If an AP has $a_1=1$, $a_n=20$ and $S_n=399$, then the value of n is

OR

If the first term of an AP is p and the common difference is q, its 10th term is

III Answer the following questions of 3 mark each

7. If the sum of the first 14 terms of an AP is 1050 and its first term is 10, find the 20th term

8. Find the sum of all 3-digit natural numbers which are multiples of 11.

OR

How many terms of the AP: 9, 17, 25, ... must be taken to get a sum of 636?

IV Case study-based questions are compulsory. Each questions of 2 mark each

India is competitive manufacturing location due to the low cost of manpower and strong technical and engineering capabilities contributing to higher quality production runs.

The production of TV sets in a factory increases uniformly by a fixed number every year.

It produced 16000 sets in 6th year and 22600 in 9th year.

Based on the above information, answer the following questions:

i. Find the production during the first year.

ii. In which year, the production is 29,200



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