SHIVAGADHI ENGLISH SCHOOL

First Terminal Examination 2081

Class: 7 **Full Marks: 50**

Subject: Math **Pass Marks:**

Attempt all the questions

1.If A ={ 1,3,5} , B= { 2,4,6} and C= { 0,2,4,6,8} .

a. Define infinite set with examples . 1

b.Write the universal set for all three sets . 1

c. Can we Write B⊂ C ? Give a reason. 1

2. If P= { 1,2,3,4,5} and Q= { 2,4,6}

a. Write all the subsets of set Q . 1

b. What is the relation between sets P and Q ? 1

c. Show the above information in a Venn- diagram. 1

3. Sets P= { Prime numbers less than 8} Q= { 2,3,5,7} and R= { natural number between 5 and 6 } .

a. Define empty set . 1

b. Are set P and Q are equal sets ?justify .1

c. Is the set R the proper subset of P ? 1

4. Observe the following numbers and do the given questions.1,2,4,3,9,8,10,25,36,27,24

a. Which is the prime as well as even number ? 1

b. List out the square numbers. 1

c. Which is the greatest cube number ?

d. What are the factors of 24 ? 2

5. Find the square and square root of 64. 4

6. Find the square and square root of 8. (2+2)

7. The area of a square field is 42025 m^2. Find the perimeter of the field. (4)

8. a) What do you mean by cube and cube root ? 2

b) Find the cube root of 512. 3

9.a) What is the full form of H.C.F ? 1

b) b. Find the HCF of 84 and 108 by using division method. (3)

10. Find the LCM. By using division method : 48, 72, 108. (3)

11. The sum of two integers is +25 and one of them is -10. Find the next integers ? (4)

12. Simplify : (+35)+(-27)-(+14)+(+27)-(+17) (4)

13. Find two rational numbers between $\frac{1}{4} and \frac{1}{2}$. (4)

The End