Duration: 2 hours   **Class VII –Mathematics**   **Max Marks: 50**

Name: **Class/Sec.**   **Roll No.**

General Instructions:
1. **All questions are compulsory.**
2. **The question paper divided into 3 sections, MENTAL MATHS (15 marks), CALCULATION BASED (20 Marks) and APPLICATION BASED (15 Marks).**
3. **Use of calculator and smart watches with calculator is strictly prohibited**.

Section A: Mental Maths (each questions carries 01 marks)

(1) Find the missing number in in the pattern 7, 3, -1, -5, _____, _____,

(2) 5x (-4) = (-4) x5, is an example of commutative property (True or False)

(3) Replace the blank with an integer to make (-5) x _____ =125x (-1)

(4) Express 2km 400 metre in Km _____

(5) How much less is 27kg than 45.2kg _____

(6) The probability of an events may be more than 1(True or False) _____

(7) Range of a data =highest observation – Lowest observation   (True/False)

(8) Write 2 equivalent rational number of $\frac{-3}{5}$ _____

(9) Fill in the blanks (-3) +(-4) + (5) = (-3) +(5) + (--),

(10) Reciprocal of $\frac{-3}{2}$ = _____

(11) Number of outcomes when a coin is tossed _____

(12) All integers are rational numbers (True or False) _____

(13) Write place value of 2 in 7.52_____

(14) 5.432 X100 =_____

(15) 9.57 ÷ 1000=_____

Section B: Calculation based (each questions carries 02 marks)

(16) Evaluate:

(a) $\frac{7}{10}$ + $\frac{2}{5}$ + $\frac{5}{2}$ (b)$5\frac{1}{3}$ - $4\frac{1}{3}$

(17)Multiply and express as a mixed fraction:

(a) $4 \times 6\frac{1}{3}$

(b) $\frac{2}{4}$ of 10

(18) Write four rational number between $\frac{1}{3}$ and $\frac{1}{2}$

(19) Sides of a triangle are $3\frac{1}{4}$ cm, $4\frac{1}{2}cm$ and $2\frac{1}{3}cm$. Find its perimeter

(20) Evaluate:

(a) $2\frac{1}{6} \div 3\frac{1}{4}$
decimal)

(b) 125 ÷ 8(write answer in

(21) Find the product: 25 x (-48) +(-48) x 15

(22.a). Marks of 10 students of class VII are as follows 5,10,9,8,7,3,7,10,8,9 find the mean marks
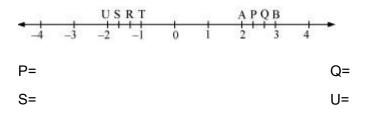
(22.b). Heights (in cm) of 10 students of class VII are as follows 132,145,132,130,140,150,136,140,120, Find median height.

(23) Write the following numbers in descending order

$$\frac{-1}{5}, \ \frac{2}{-3}, 0, \ \frac{-1}{2}$$

(24) A Car cover 23.5 Km in one litre of petrol. How much will it cover in 10.5 litre of petrol?

(25) The points P, Q, R, S, T, U, A and B on a number line are such that TR=RS=SU and AP=PQ=QB. Write the rational numbers against the following letters.

P=   Q=

S=   U=

Section C: Application based (each questions carries 03 marks)

(26) Marks of 10 students are as follows:
17,16,16,17,18,19,16,19,20,16,17,18,19,16,19,16,17,18,16,19

Marks	Tally Marks	Frequency
16		
17		
18		
19		
20		

Complete the table and find mode of the data.

(27) In a class test (+5) marks are awarded for every correct answer and (-2)marks awarded for every wrong answer and no marks for not attempting .

(a) Radha attempted 5 questions correctly and 3 incorrect answers find her score
(b) Mohan attempted 8 questions correctly and his total score is 30 find how many questions she attempted wrong.

OR

In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English $\frac{2}{5}$ of the total number like to study Mathematics, and remaining students like to study Science

(a) How many students like to study Maths?
(b) How many students like to study English?
(c) What fraction of the total number of students like to study Science?

(28) Ravi bought 5 Kg 400 g apple and 4Kg 525g mangoes. Ramesh bought 4Kg300g apple and 5Kg 200g Mangoes

(a) How much amount of fruits Ravi bought?
(b) How much amount of fruits Ramesh bought
(c) Who bought more fruit and by how much?

(29) There are 5 blue ,2 black, and 4 green balls in a box ,one ball is taken out randomly without seeing into it, find the probability of the following events.

(a) A green ball   (b) either black or green   (c) Not blue

(30) Marks of a student in two terms are as follows

Subject	English	Hindi	Mathematics	Science	S.St
I st Term	75	42	80	72	62
IInd Term	88	80	95	85	82

Represent the above data through double bar graph

(Do the question on graph sheet attached with the paper)   Pg.5