

# CENTRAL PUBLIC SCHOOL

Subject – Maths  
Class – VII

TAJPUR ROAD, SAMASTIPUR  
MID TERM EXAM - 2018

Time- 3 hrs.  
F. M. – 80

## Section – A

Attempt any 10 sums.

30

Simplify the following integers

1.  $(-12) + 32 + (-25)$

2.  $10 + 20 + (-15)$

3.  $(-352) + (-256)$

4.  $(-153) \times (-110)$

5.  $(-124) \times (-3) \times 120$

6.  $(-4760) \div (-17)$

7.  $61.68 \div 1.2$

8.  $(\frac{-4}{5})^5$

9.  $34.2 - 28.639 + 9.057$

10.  $(-8)^5 \times (-8)^3$

Subtract:

11.  $x - 3y$  from  $-3x - y$

12.  $(a - b)$  from  $(5a - 2b + 4)$

## Section – B

20

Attempt any 5 sums.

13.  $5 \frac{2}{9} \div \frac{8}{27}$  of  $\frac{15}{7} + \frac{9}{5}$

14.  $(\frac{2}{3})^4 \times 1296$

15. The cost of 16m of a cloth is Rs. 672. Find the cost of 19m of the same cloth.

16. If two complementary angles are in the ratio of 4:5, find the angles.

17. If the angles of a triangles PQR are in the ration 1:2:5, find the measure of the angles P, Q and R.

18. Divide Rs. 16800 in the ration 5:7.

19. The sum of two numbers is 15.84. if one of them is 8.4, find the other number.

## Section – C

20

Attempt any 4 sums.

20. The following table shows the expenses of a family in a month..

Expenses in Sectors	Food	Rent	Education	Clothing
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Amount (in Rs.)	2000	1000	1500	1000
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Construct a pie chart to represent the data

21. The highest temperature in  $^{\circ}\text{C}$  in a last week of January in Delhi was recorded as follows:

Days	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Temperature ( $^{\circ}\text{C}$ )	38	40	44	45	43	40	35

- Find the range of the temperature in above data.
  - Find the average temperature of a week.
  - On which day, was the temperature above the mean temperature?
  - On which day, was the temperature below the mean temperature?
22. A room is 9m long and 7m broad. It has one door measuring (1.5mX1m). The cost of painting the wall of the room at Rs. 50 per square meter is Rs 7925. Find the height the room.
23. A tree 10m tall is broken at a height of 4m from the ground and its top touches the ground. Find the distance of the point where the top touches the ground from the base at the tree.
24. Two numbers are in the ratio 4:5. If 5 is added to each number, the ratio became 13:16. Find the numbers.
25. Simplify:  $3m - [2n - \{mn - (m - n + mn) + mn\} + n] - m$

#### Section – D (Any 2) 10 marks

- Find the values of  $2^0$ ,  $2^1$ ,  $2^2$ ,  $2^3$ , and  $2^4$ .
- What is Pythagorean triplet? Give an example.
- Draw and define, regular polygon.

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