JSUNILIUTORIAL

CENTRAL PUBLIC SCHOOL

Subject - Maths Class - VIII

TAJPUR ROAD, SAMASTIPUR

Time- 3 hrs.

MID TERM EXAM - 2018

F. M. - 80

Section - A

Attempt any 10 sums.

- 1. Define multiplication properties of rational numbers with suitable examples.
- 2. Verify that $a (b c) \neq (a b) c$ for $a = -\frac{1}{2}$, $b = \frac{3}{4}$ & $c = \frac{-7}{8}$.
- 3. Divide the sum of $\frac{15}{6}$ and $\frac{-2}{5}$ by the product of $-\frac{11}{23}$ & $\frac{2}{7}$.
- 4. Simplify [(-15x3y11)9 (812x6y20)7]0.
- 5. Compare by writing in standard form 463X10⁻⁷ and 14.63X10⁻⁷.
- 6. A train traveling 40km/hr crosses a post in 30 seconds. It passes a platform in 45 seconds. Find the length of platform.
- 7. If 18 cows can graze a field in 20 days. How many cows can graze the same field in 15 days?
- 8. Divide 5220 in three parts in the ratio: of 2:3:5.
- 9. The difference between C.I and S.I on a certain sum of money for 2 years at 5% p.a. is Rs. 100. Find the sum.
- 10. The S.P. of 9 apples is equal to the C.P. of 15 apples. Find the gain%.
- 11. The VAT on a refrigerator at 8% is Rs. 1170. Find actual S.P.
- 12. If $x + \frac{1}{x} = 5$ then find $\sqrt{x} + \frac{1}{\sqrt{x}}$ and $x^2 + \frac{1}{\sqrt{x^2}}$.

Section – B

Attempt any 5 sums.

- 13. State True or False.
 - THE THE COLUMN COLUMN DOORS AND A WARREN a. All trapeziums are parallelogram.
 - b. A parallelogram is a kite.
 - c. All squares are rectangles.
 - d. Al rectangles are parallelogram,
- 14.X can do a piece of work in 3 days, Y can do it in 6 days. How long will X and Y take to complete the work working together?
- 15. Find the difference between simple interest and compound interest on Rs. 12000 at 9% per annum for 3 years, compounded annually.
- 16.A watch was sold at a profit of 12%. Had it been sold for Rs. 33 more, the profit would have been 14%. Find the cost price of the watch.
- 17. Solve by substitution method: y=2x, 7x 2y = 15
- 18. Factorise $p^2 + 11p + 18$.

Section - C

Attempt any 4 sums.

20

- 20. Simplify: $(2x^2 5x + 8) (x^2 + 3x 2) + (14 12x)$
- 21. What the least number should be subtracted from 1456 to make a perfect square?
- 22. The measure of each exterior angle of a regular polygon is 60°. Find the number of sides of the polygon and hence the measure of each interior angle.
- 23.A hostel spends Rs. 5000 as cost of sugar for 30 students for 25 days. if they spend Rs. 4000 for 40 students, for how many days will the sugar last?
- 24. Two trains of length 200m and 250m respectively are running in opposite direction on parallel tracks. If their speed be 45km/h and 50km/h respectively, in what time will they cross each other?
- 25.A shopkeeper is allowing a discount of 20% on his goods, how much percent above the cost price should he mark his goods, so that after allowing a discount on the marked price, he gain 25%?

Section – D

Attempt any 5 sums.

10

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- 26. $\frac{2}{3}$ X $\frac{1}{4}$
- $27.(5)^{-2}$
- 28. Find the volume of cube if its side is 5cm long.
- 29. The length of rectangle is (x+2) and the breadth is (x+1). Find its area.
- 30. Find the value of x. 3x+2 = 2x 1
- 31.20% of 80
- 32.If p = 2000, S.I. = 200. Find amount.

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