

V**COMMON SECOND MID - TERM TEST - NOV. 2019****STANDARD - VIII**Reg.No.

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Time : 2.00 hrs

MATHS

Marks: 60

PART - I**20×1=20****I. Choose the correct answer:**

- Profit Percentage Calculated from ____
 (i) S.P (ii) C.P (iii) M.P (iv) Profit
- Profit Percentage ____
 (i) $\frac{pnr}{100}$ (ii) $P\left(1 + \frac{r}{100}\right)^n$ (iii) $\frac{P}{CP} \times 100$ (iv) $\frac{x}{100}$
- To construct trapezium we need ____ measures.
 (i) 3 (ii) 4 (iii) 5 (iv) 6
- The solution of the equation $ax + b = 0$
 (i) $-b/a$ (ii) b/a (iii) a/b (iv) $-a/b$
- If $x - 5 = 0$ then $x =$ ____
 i) 0 ii) 5 iii) $1/5$ iv) $0/5$

II. Fill in the following blanks:

- 0.5252 is 52.52 %
- Discount is calculated from S.P - C.P.
- Difference between C.I & S.I = Selling price.
- Write a statement for sum of two number is 45 4+5.
- $a + b = 23$ if $a = 8$, $b =$ 3.

III. True or false :

- SP = CP + P
- SP = MP - CP
- Loss % = $\frac{L}{CP} \times 100$
- $\frac{2P}{3} = 10$ then $P = 15$
- Depreciation = $P\left(1 - \frac{r}{100}\right)^n$

IV. Match the following:

- One half - Compound Interest ³
- $P\left(1 + \frac{r}{100}\right)^n$ - $\frac{1}{2} \times h \times (a+b)$ ⁵
- Simple Interest - Loss ⁴
- CP - SP - $\frac{pnr}{100}$ ²
- Trapezium - 50% ¹

PART - II

V. Answer any 10 :

10 × 2 = 20

21. If $x\%$ of 600 is 450 then, find the value of x .
22. If the population in a town has increased from 20,000 to 25,000 in a year, find the percentage increase in population.
23. The marked price of a mixer grinder is ₹ 4,500 is sold for ₹ 4,140 after discount. Find the rate of discount.
24. Define : Compound interest.
25. Find the difference is C.I and S.I for $P = ₹ 5,000$, $r = 4\%$ p.a. $n = 2$ years
26. The marked price of a book is ₹ 225, rate of discount 8%. Find selling price.
27. The sum of 5 times a number and 18 is 28. Find the number.
28. Solve : $2x + 5 = 9$
29. Find $y = \frac{2y}{3} - 4 = \frac{10}{3}$
30. Write examples for Linear equation, quadratic equation, and cubic equation.
31. If the angles of triangle are in the ration 2 : 3 : 4. Find the difference between the greatest and the smallest angle.
32. In an equation $a + b = 23$. The value of a is 14. Find the value of b .

PART - III

VI. Answer any 5:

5 × 3 = 15

33. If a Mattress is marked for ₹ 7,500 and is available at two successive discounts of 10% and 20% Find the amount to be paid by the customer.
34. The value of a Motor cycle 2 years ago was ₹ 70,000. It depreciates at the rate of 4% p.a. Find its present value.
35. A principal becomes ₹ 2,028 in 2 years at 4% p.a. compound interest. Find the principal.
36. Find m value : $\frac{m+9}{3m+15} = \frac{5}{3}$
37. The length of a rectangular field exceeds its breadth by 9 metres. If the perimeter of the field is 154m. Find the length and breadth of the field.
38. The sum of three consecutive odd numbers is 75. Which is the largest among them?
39. A mother is five times as old as her daughter. After 2 years the mother will be four times as old as her daughter. What are their present ages?

PART - IV

VII.

1 × 5 = 5

40. Construct a trapezium AIMS in which $\overline{AI} \parallel \overline{SM}$, $AI = 6\text{cm}$, $IM = 5\text{cm}$, $AM = 9\text{cm}$ and $MS = 6.5\text{cm}$. Also find its area.

(OR)

41. Construct a trapezium CARD in which $\overline{CA} \parallel \overline{DR}$ $CA = 9\text{cm}$, $\angle CAR = 70^\circ$, $AR = 6\text{cm}$ and $CD = 7\text{cm}$. Also find its area.
