මතුගම අධ්‍යාපන කලාපය

දෙවන වාර ඇගයීම-2020

ගණිතය -9 ශ්‍රේණිය

පිළිතුරු පත්‍රය

I -පත්‍රය

01. 23 , 27

02. $\frac{2}{6}+\frac{1}{6}=\frac{3}{6}$

03. $2a = 80^0$

$a = 40^0$

04. $2^3\times1 + 2^2 \times 1 + 2^1\times0 + 2^0 \times1$

$13_{දහය}$

05. රු.$\frac{300\times4}{3} \times 2$

රු.800.00

06. $3 \times 2^2 + 2 \times(-3)$

$= 6$

07. $a = 60^0$

08. $x(x + 3) + 5(x + 3)$

$x^2 + 8x +15$

09. රු.$35000 \times \frac{88}{100}$

රු.30800.00

10. $B = 40^0$

$D = 60^0$

11. $3 \times 10 + 1$

$= 31$

12. $180^0 + 50^0$

230^0

13. 1 cm ----- 0.5 km

6 cm ----- 3 km

14. I. $(y + 2)y$

II. 35

15. $\frac{21}{4}\div\frac{21}{2}=\frac{1}{2}$

16. $(97 – 3)(97 + 3)$

$= 9400$

17. I. $y = 70^0$

II. ඔව්

18. $xy (3x – 5)$

19. $x^2 + 5x + 6$

20. $\frac{25000}{150000}\times100\%$

$= 16\frac{2}{3}\%$

II - පත්‍රය

01)

a)

I. AB හා CD

II. $b + c = e$

III. අනුරූප කෝණ

IV. c හා d (ඒකාන්තර කෝණ)

a හා b (ප්‍රතිමුඛ කෝණ)

V. $b = 30^0$

b)

I. $A\hat{O}E$

II. $A\hat{O}E$ හා $B\hat{O}E$ හෝ $A\hat{O}C$ හා $B\hat{O}C$

III. $B\hat{O}D$ හා $D\hat{O}E$

IV. $y = 40^0$

V. $A\hat{O}C + x = 180^0$

VI. $A\hat{O}C = 130^0$

02)

I. $31_{දහය} = 11111_{දෙක}$

II. $2^4 \times1 + 2^3 \times1 + 2^2 \times0 + 2^1\times0 + 2^0\times1$

$25_{දහය}$

III. a) $10011_{දෙක}$

b) $110_{දෙක}$

IV. $12_{දහය} = 1100_{දෙක}$

03)

a)

I. රු.5000

II. රු,6500

III. රු.6500/100

රු.65

b)

I. රු.250

II. $\frac{250}{500} \times 100 = 50\ \%$

04)

a) $x^2 + 2x + 3x + 6$

$(x + 2)(x + 3)$

b) $y^2 + 4y – 2y -8$

$(y + 4)(y - 2)$

c) $2\ (x^2 - 9)$

$2\ (x^2 – 3^2\ )$

$2\ (x - 3)(x + 3)$

d) $5 \times 2^2 – 2 \times (-3)$

$= 23$

05)

a)

I. $\frac{1}{4} + \frac{2}{3} = \frac{11}{12}$

II. $\frac{12}{12} - \frac{11}{12} = \frac{1}{12}$

b)

I. $\frac{6}{10} - \frac{5}{10} = \frac{1}{10}$

II. $\frac{9}{10} \times \frac{2}{3} = \frac{3}{5}$

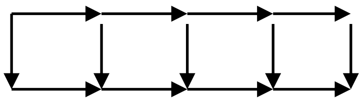
III. $\frac{10}{3} \div (\frac{6}{10} + \frac{5}{10}) = \frac{10}{3} \times \frac{10}{11}$

$= 3\frac{1}{3}$

06)

a)

I.



II. $3n + 1$

b)

I. 5 , 9 , 13 , 17

II. $4 \times 12 + 1$

49

III. $4n + 1 = 201$

$4n = 200$

$n = 50$

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