

13.08.2019

EVERWIN VIDHYASHRAM

Marks: 20

STD: VIII

PERIODIC ASSESSMENT- II

Time: 45mins

MATHS (PART - II)

I. Answer the following:

1. $4 \times a \times b$ 2. $10(xy + 2)$ 3. Irreducible 4. 3 5. $(a - b)$

$4 \times 4 \times a \times b \times b \times c$

II. Answer the following questions:

$$\begin{aligned}
 6. \quad & 9x^2 + 27xy + 5x + 15y \\
 & = 9x(x + 3y) + 5(x + 3y) \\
 & = (9x + 5)(x + 3y)
 \end{aligned}$$

7. $p^2 + 8p + 16$

It is of the form $a^2 + 2ab + b^2 = (a + b)^2$ $p^2 + 8p + 16 = p^2 + 2 \times 4 \times p + 4^2$

$= (p + 4)^2$

$= (p + 4)^2$

8. a) $\frac{p(p+1)(p+2)(p+3)}{p(p+1)} = (p+2)(p+3)$

b) $\frac{15x+45y}{15} = \frac{\cancel{15}[x+3y]}{\cancel{15}} = x+3y$

9. $x^2 + 9x + 20$

$= x^2 + 5x + 4x + 20$

$= x(x + 5) + 4(x + 5)$

$= (x + 4)(x + 5)$

10. a) $(ab + a) + 1(b + 1)$

$= a(b + 1) + 1(b + 1)$

$= (a + 1)(b + 1)$

b) $2x^3 \& 8x^5$

$2 \times x \times x \times x$

$2 \times 2 \times 2 \times x \times x \times x \times x \times x$

C.F = $2 \times x \times x \times x = 2x^3$