

# Anita's Coaching Classes

Marks : 40  
Time : 1:30 hrs

(1 Mark each)

- 1) Factorise  $3xy + 9x^2y^3$
- 2) Divide  $7x^2y^2z^2 \div 21xyz$
- 3)  $x^2 - (p+q)x + pq$

(2 Marks each)

- 4) Factorise  $12xy - 8y + 12 - 18x$ .
- 5) Factorise  $ax + bx - ay - by$
- 6) Factorise  $x^2 + 8x + 16$
- 7) Factorise  $x^2 + x - 6$
- 8) Factorise  $98a^2 - 250$
- 9)  $x^4 - y^4$  by  $x - y$

(2 ½ Marks each)

- 10) Factorise  $4a^2 - 12ab + 9b^2 - c^2$
- 11) Factorise  $3m^4 - 48$
- 12) Factorise  $3m^2 + 9m + 6$ .
- 13) Divide  $55(x^4 - 5x^3 - 24x^2)$  by  $11x(x - 8)$
- 14) Divide  $12x^3y^3(9x^2 - 16y^2) \div 6xy(3x + 4y)$
- 15) Factorise  $x^2 + 2xy + y^2 - a^2 - 2ab - b^2$
- 16) Find and correct the errors in the following mathematical statements.
- 17)  $(2x)^2 + 4(2x) + 7 = 2x^2 + 8x + 7$
- 18)  $16x^4 - 81y^4$
- 19)  $3a^4 - 48b^4$