

**Answer The Following**

1) Find factors of following polynomial

A)  $y^2 - 4xy - 7y + 28x$

B)  $8c^2 + 32pc + 8c + 32p$

2) Factorise  $(20y^2 - 36)$

3) Factorise  $(20k^2 - 20k + 4)$ .

4) Find factors of polynomial  $(4p^2 - 8pq + 4q^2 - 20r^2)$ .

5) Find factors of following polynomials

A)  $30x^2 + 24x^2y$

B)  $24x^2y^2 + 96y^2$

**Choose correct answer(s) from given choice**

6) Find factors of  $x^2 + 5x + 18$ .

a.  $(x - 3)(x + 6)$

b.  $(x + 3)(x + 6)$

c.  $(-x + 3)(x + 6)$

d.  $(-x + 3)(-x + 6)$

7) Factorise  $(81x^4 - 625)$ .

a.  $(3x + 5)(3x + 5)(3x^2 - 25)$

b.  $(3x + 5)(3x - 5)(3x^2 + 25)$

c.  $(3x + 5)(3x - 5)(3x^2 - 25)$

d.  $(3x + 5)(3x - 5)(3x + 5)(3x - 5)$

8) Find factors of  $7xy + 63y + 6x + 34$

a.  $(x + 9)(7y + 6)$

b.  $(x + 9)(7y + 6)$

c.  $(-x + 9)(-7y + 6)$

d.  $(-x + 9)(7y + 6)$

9) Factorise  $(620y^4 - 400y^2 + 81)$ .

a.  $(2y^2 + 9)(2y - 3)(2y + 3)$

b.  $(y - 1)(20y + 9)(y - 1)(20y + 9)$

c.  $(2y + 3)(2y + 3)(2y - 3)(2y - 3)$

d.  $(2y - 3)(2y - 3)(2y - 3)(2y - 3)$

**Fill in the blanks**

10) Fill in the missing values in following factorisation

$48x^2c^2r + 60xc^2r = \text{.....}xc^2r + 4c^2r + \text{.....}$