



- k) Find the distance between two parallel lines  $3x + 2y - 6 = 0$  and  $3x + 2y - 12 = 0$ .
- l) Find the centre and radius of the circle  $2x^2 + 2y^2 + 5x - 6y + 3 = 0$ .
- m) Expand  $(x + 3y)^4$  using binomial theorem.
- n) If  $\sin \theta = \frac{3}{5}$  and  $\cos \theta = \frac{4}{5}$  find  $\tan \theta, \cot \theta$ .

2. Attempt any four of the following :

16

- a) Resolve into partial fraction  $\frac{x-5}{x^3+x^2-5x}$ .
- b) Resolve into partial fraction  $\frac{13x+19}{(x+3)(x-2)(x+1)}$ .
- c) Find 7<sup>th</sup> term of  $\left(\frac{x}{y} - \frac{y}{x}\right)^{10}$ .
- d) The currents  $I_1, I_2$  and  $I_3$  in three loops gave the following equations. Find the values of  $I_1, I_2, I_3$  using Cramer's rule
- $$\begin{aligned} 2I_1 - I_2 + I_3 &= 0 \\ 4I_1 - I_3 &= 2 \\ 2I_2 + I_3 &= 2. \end{aligned}$$
- e) Using Binomial Theorem, prove that  $(1 + \sqrt{3})^4 + (1 - \sqrt{3})^4 = 56$ .
- f) If  $\log \left(\frac{m+n}{3}\right) = \frac{1}{2}(\log m + \log n)$   
Then show that  $\frac{m}{n} + \frac{n}{m} = 7$ .

3. Attempt any four of the following :

16

- a) Find the adjoint of the matrix  $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 3 & 5 \\ 1 & 5 & 12 \end{bmatrix}$ .
- b) If  $A = \begin{bmatrix} 2 & 5 & 6 \\ 0 & 1 & 2 \end{bmatrix}, B = \begin{bmatrix} 6 & 1 \\ 0 & 4 \\ 5 & 7 \end{bmatrix}$  verify that  $(AB)' = B'A'$ .

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