



MARKS

- 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 :

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- 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 7th 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 :

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- 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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