

2. Attempt any THREE of the following :

12

(a) If $A = \begin{bmatrix} 3 & -1 \\ 2 & 4 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 2 \\ -3 & 0 \end{bmatrix}$, then

Find the matrix 'X' such that

$$2X + 3A - 4B = I, \text{ where } I \text{ is identity matrix of order } 2.$$

(b) If $A = \begin{bmatrix} -2 & 0 & 2 \\ 3 & 4 & 5 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ 3 & 5 \\ 0 & 2 \end{bmatrix}$, whether AB is singular or non-singular matrix ?

(c) Resolve into partial fraction $\frac{3x-2}{(x+2)(x^2+4)}$.

(d) If A and B are obtuse angle and $\sin A = \frac{5}{13}$ and $\cos B = \frac{-4}{5}$, then find $\sin (A + B)$.

3. Attempt any THREE of the following :

12

(a) Prove that, $\frac{\sin 3A - \sin A}{\cos 3A + \cos A} = \tan A$

(b) Prove that $\sin^{-1}\left(\frac{3}{5}\right) - \sin^{-1}\left(\frac{8}{17}\right) = \cos^{-1}\left(\frac{84}{85}\right)$.

(c) Find the equation of straight line passing through the point of intersection of lines $4x + 3y = 8$ and $x + y = 1$; and parallel to the line $5x - 7y = 3$.

(d) Find $\frac{dy}{dx}$, if $x^3 + xy^2 = y^3 + yx^2$.

4. Attempt any THREE of the following :

12

(a) If $x = a(\theta + \sin \theta)$ & $y = a(1 - \cos \theta)$, find $\frac{dy}{dx}$ at $\theta = \frac{\pi}{2}$.

(b) If $y = (x)^{\sin x} + (\tan x)^x$, find $\frac{dy}{dx}$.

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