

Marking Scheme
Mathematics (Term-I)
Class-XII (Code-041)

Q.N.	Correct Option	Hints / Solutions
1	d	$\sin\left(\frac{\pi}{3} - \left(\frac{-\pi}{6}\right)\right) = \sin\left(\frac{\pi}{2}\right) = 1$
2	b	$\lim_{x \rightarrow 0} \left(\frac{1 - \cos kx}{x \sin x} \right) = \frac{1}{2}$ $\Rightarrow \lim_{x \rightarrow 0} \left(\frac{2 \sin^2 \frac{kx}{2}}{x \sin x} \right) = \frac{1}{2}$ $\Rightarrow \lim_{x \rightarrow 0} 2 \left(\frac{k}{2} \right)^2 \left(\frac{\sin \frac{kx}{2}}{\frac{kx}{2}} \right)^2 \left(\frac{x}{\sin x} \right) = \frac{1}{2}$ $\Rightarrow k^2 = 1 \Rightarrow k = \pm 1 \text{ but } k < 0 \Rightarrow k = -1$
3	d	$A^2 = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
4	c	<p>As A is singular matrix</p> $\Rightarrow A = 0$ $\Rightarrow 2k^2 - 32 = 0 \Rightarrow k = \pm 4$
5	b	$f(x) = x^2 - 4x + 6$ $f'(x) = 2x - 4$ $\text{let } f'(x) = 0 \Rightarrow x = 2$ $\begin{array}{ccccccc} & & + & & + & & \\ \leftarrow & (-) & & 2 & & (+) & \rightarrow \\ & & -\infty & & \infty & & \end{array}$ <p>as $f'(x) > 0 \quad \forall \quad x \in (2, \infty)$ $\Rightarrow f(x)$ is Strictly increasing in $(2, \infty)$</p>
6	d	as $ \text{adj } A = A ^{n-1}$, where n is order of the square matrix A $= (-4)^2 = 16$
7	b	$(1, 2)$
8	a	$2a + b = 4 \quad a - 2b = -3 \quad 5c - d = 11 \quad 4c + 3d = 24 \quad \Rightarrow a = 1 \quad b = 2 \quad c = 3 \quad d = 4$ $\therefore a + b - c + 2d = 8$
9	a	$f(x) = x + \frac{1}{x}, x > 0 \Rightarrow f'(x) = 1 - \frac{1}{x^2} = \frac{x^2 - 1}{x^2}, x > 0$ <p>As normal to the curve $y = f(x)$ at some point (x, y) is \perp to given line</p> $\Rightarrow \left(\frac{x^2}{1-x^2} \right) \times \frac{3}{4} = -1 \quad (m_1 \cdot m_2 = -1)$ $\Rightarrow x^2 = 4 \Rightarrow x = \pm 2$ <p>But $x > 0, \therefore x = 2$ Therefore point = $\left(2, \frac{5}{2}\right)$</p>
10	d	$\sin(\tan^{-1} x) = \sin\left\{\sin^{-1}\left(\frac{x}{\sqrt{1+x^2}}\right)\right\} = \frac{x}{\sqrt{1+x^2}}$
11	a	$\{1, 5, 9\}$
12	c	$e^x + e^y = e^{x+y}$ $\Rightarrow e^{-y} + e^{-x} = 1$ Differentiating w.r.t. x :

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