

**MATHEMATICS QUESTION PAPER**  
**CLASS XII**

**Time Allowed: 1.15 hours**

**SET A**

**Maximum Marks: 40**

**General Instruction**

1. The question paper contains five sections A, B, C, D and E. Each section is compulsory. However, there are internal choices in some questions.
2. Section A has 9 MCQ's and 2 Assertion-Reason based questions of 1 mark each.
3. Section B has 3 Very Short Answer (VSA)-type questions of 2 marks each.
4. Section C has 3 Short Answer (SA)-type questions of 3 marks each.
5. Section D has 1 Long Answer (LA)-type questions of 5 marks each.
6. Section E has 2 source based/case based/passage based/integrated units of assessment (4 mark) with sub parts.

**Section A**

1. If  $\begin{bmatrix} x+3 & 4 \\ y-4 & x+y \end{bmatrix} = \begin{bmatrix} 5 & 4 \\ 3 & 9 \end{bmatrix}$ , find  $x$  and  $y$ .  
(a)  $x = 3, y = 4$  (b)  $x = 2, y = 7$   
(c)  $x = 1, y = 6$  (d)  $x = 4, y = 3$
2. Find the value of  $a_{33} + a_{32}$  in the matrix  $A = [a_{ij}]_{3 \times 3}$   
Where  $a_{ij} = \begin{cases} |2i - j| & \text{if } i > j \\ -i + 2j + 3 & \text{if } i \leq j \end{cases}$   
(a) 11 (b) 10 (c) 5 (d) 16
3. If  $A = \begin{bmatrix} 4 & x+2 \\ 2x-3 & x+1 \end{bmatrix}$  is symmetric matrix, then find  $x$ .  
(a) 4 (b) 11 (c) 10 (d) 5
4. If  $n(A) = n(B) = 3$ , then how many bijective functions from  $A$  to  $B$  can be formed?  
(a) 8 (b) 6 (c) 9 (d) 27
5. The function  $f: \mathbb{N} \rightarrow \mathbb{N}, f(x) = x + 1$  is  
(a) one-one (b) onto  
(c) one-one and onto (d) neither one-one nor onto
6. The principal domain of the function  $f(x) = \tan^{-1} x$  is

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