

Time : 3 Hours

Maximum Marks : 180

ANSWER KEY
&
SOLUTION WITH EXPLANATION

Solution Sheet Available Only for 24 Hours

PART – 1 : MATHEMATICS

Section-I (Maximum Marks : 18)

- This section contains SIX (06) questions having four options each.
 - ONLY ONE of these four options is the correct answer.
- Full Marks : +3 If ONLY correct option is chosen;
Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);
Negative Marks : -1 In all other cases.

1. If the range of function $f(x) = \frac{x^2+x+c}{x^2+2x+c}$, $x \in \mathbb{R}$ is $\left[\frac{5}{6}, \frac{3}{2}\right]$ then c is equal to
(A) -4 (B) 3 (C) 4 (D) 5

Ans. (C)

Sol. Let $y = \frac{x^2+x+c}{x^2+2x+c}$
 $\Rightarrow (y-1)x^2 + (2y-1)x + c(y-1) = 0$
As x is real, so $D \geq 0$
 $\Rightarrow (2y-1)^2 \geq 4c(y-1)^2 \Rightarrow 4(c-1)y^2 + 4(1-2c)y + (4c-1) \leq 0 \dots (i)$
But we are given
 $(6y-5)(2y-3) \leq 0 \Rightarrow 12y^2 - 28y + 15 \leq 0 \dots (ii)$
 \therefore On comparing (i) and (ii), we get $\frac{c-1}{3} = \frac{1-2c}{-7} = \frac{4c-1}{15} \Rightarrow c = 4$ Ans.

2. Let $f : \mathbb{N} \rightarrow \mathbb{N}$ be defined as $f(n) = \begin{cases} \frac{n+1}{2}, & \text{if } n \text{ is odd} \\ \frac{n}{2}, & \text{if } n \text{ is even} \end{cases}$ for all $n \in \mathbb{N}$. Then f is
(A) injective but not surjective.
(B) surjective but not injective.
(C) both injective as well as surjective.
(D) neither injective nor surjective.

Ans. (B)

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