



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  $\left[\frac{2}{3}, \frac{3}{2}\right]$  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)

# Jee Advanced Paper 2 Solution

**DP Hallahan**



## **Jee Advanced Paper 2 Solution:**

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