JEE ADVANCED – 2013

Paper – 2

MATHEMATICS

SECTION – 1 : (One or more option correct Type)

This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D) out of which ONE or MORE are correct.

41. For $a \in R$ (the set of all real numbers), $a \neq -1$, $\displaystyle\lim_{n \to \infty} \frac{(1^a + 2^a + \dots + n^a)}{(n+1)^{a-1}[(na+1)+(na+2)+\dots+(na+n)]} = \frac{1}{60}$.
   Then $a =$
   (A) 5
   (B) 7
   (C) $\dfrac{-15}{2}$
   (D) $\dfrac{-17}{2}$

   Sol.   (B, D)

   Required limit $= \dfrac{\displaystyle\int_0^1 x^a\,dx}{\displaystyle\int_0^1 (a+x)\,dx} = \dfrac{2}{(2a+1)(a+1)} = \dfrac{2}{120}$

   $\Rightarrow a = 7$ or $-\dfrac{17}{2}$.

*42. Circle(s) touching x-axis at a distance 3 from the origin and having an intercept of length $2\sqrt{7}$ on y-axis is (are)
   (A) $x^2 + y^2 - 6x + 8y + 9 = 0$
   (B) $x^2 + y^2 - 6x + 7y + 9 = 0$
   (C) $x^2 + y^2 - 6x - 8y + 9 = 0$
   (D) $x^2 + y^2 - 6x - 7y + 9 = 0$

   Sol.   (A), (C)
   Equation of circle can be written as
   $(x - 3)^2 + y^2 + \lambda\,(y) = 0$
   $\Rightarrow x^2 + y^2 - 6x + \lambda y + 9 = 0$.
   Now, $(radius)^2 = 7 + 9 = 16$

   $\Rightarrow 9 + \dfrac{\lambda^2}{4} - 9 = 16$

   $\Rightarrow \lambda^2 = 64 \Rightarrow \lambda = \pm 8$.
   $\therefore$ Equation is $x^2 + y^2 - 6x \pm 8y + 9 = 0$.

43. Two lines $L_1 : x = 5,\ \dfrac{y}{3-\alpha} = \dfrac{z}{-2}$ and $L_2 : x = \alpha,\ \dfrac{y}{-1} = \dfrac{z}{2-\alpha}$ are coplanar. Then α can take value(s)
   (A) 1
   (B) 2
   (C) 3
   (D) 4

   Sol.   (A, D)

   $\dfrac{x-5}{0} = \dfrac{y-0}{3-\alpha} = \dfrac{z-0}{-2}$

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