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), $a \neq -1$, $\lim_{n \to \infty} \frac{\left(1^n + 2^n + ... + n^n\right)}{\left(n+1\right)^{n-1}\left[\left(na+1\right) + \left(na+2\right) + ... + \left(na+n\right)\right]} = \frac{1}{60}$.

Then a =
$$(A) 5$$

 $(C) \frac{-15}{2}$

(B) 7
(D)
$$\frac{-17}{2}$$

Required limit =
$$\frac{\int\limits_0^1 x^a dx}{\int\limits_0^1 (a+x) dx} = \frac{2}{(2a+1)(a+1)} = \frac{2}{120}$$
$$\Rightarrow a = 7 \text{ or } -\frac{17}{2}.$$

(A)
$$x^2 + y^2 - 6x + 8y + 9 = 0$$

(C) $x^2 + y^2 - 6x - 8y + 9 = 0$

(B)
$$x^2 + y^2 - 6x + 7y + 9 = 0$$

(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, $(\text{radius})^2 = 7 + 9 = 16$

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

$$\Rightarrow \lambda^2 = 64 \Rightarrow \lambda = \pm 8.$$

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

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

Sol. (A, D)

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

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M Mosston

 $\ \ \, \textbf{Grade 2013 Maths Question Paper:} \\$

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