Jee Advance 2013 — Mathematics Paper- II

PART III - MATHEMATICS

SECTION - 1 : (One or more options 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. In a triangle PQR, P is the largest angle and $\cos P = 1/3$. Further the incircle of the triangle touches the sides PQ, QR and RP at N, L and M respectively, such that the lengths of PN, QL and RM are consecutive even integers. Then possible length(s) of the side(s) of the triangle is(are)

    (A) 16   (B) 18   (C) 24   (D) 22

41. **(BD)** $PM = 2k - 2$, $RL = 2k + 2$, $QN = 2k$

    $PQ = 4k - 2$, $QR = 4k + 2$, $RP = 4k$

    $$\cos P = \frac{1}{3} = \frac{(4k-2)^2 + 16k^2 - (4k+2)^2}{2(4k-2).4k} \implies k = 0, 5$$

    For $k = 0$, PQ is negative.

    For $k = 5$, sides 18, 20, 22 units.

42. 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

42. **(AD)** Point on first line can be considered as $(5, 3-\alpha, -2)$

    Point on second line : $(\alpha, -1, 2-\alpha)$

    $$\begin{vmatrix} 5-\alpha & 4-\alpha & \alpha-4 \\ 0 & 3-\alpha & -2 \\ 0 & -1 & 2-\alpha \end{vmatrix} = 0 \implies \begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1-\alpha & -2 \\ 0 & 1-\alpha & 2-\alpha \end{vmatrix} = 0$$

    $$\implies (1-\alpha)\begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1 & -2 \\ 0 & 1 & 2-\alpha \end{vmatrix} = 0 \implies (1-\alpha)[(5-\alpha)(4-\alpha)] = 0$$

    $$\implies \alpha = 1, 4, 5.$$

November 2013 Maths Paper 2 Answers

Anthony S. Fauci

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