

## 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)  $PM = 2k - 2$ ,  $RL = 2k + 2$ ,  $QN = 2k$   
 $PQ = 4k - 2$ ,  $QR = 4k + 2$ ,  $RP = 4k$

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

For  $k = 0$ ,  $PQ$  is negative.

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

42. 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  $\alpha$  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 :  $(\alpha, -1, 2-\alpha)$

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

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

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

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**Di Chilvers**



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