

## 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 :  $(\alpha, -1, 2-\alpha)$

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

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

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

# Leaked 11th June 2013 Maths Paper

**B Lingard**



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**From Thinker to Doer: Creativity, Innovation, Entrepreneurship, Maker, and Venture Capital** Yenchun Jim Wu, Chih-Hung Yuan, Mu-Yen Chen, 2021-04-21

**Presidential Leadership** George C. Edwards, Kenneth R. Mayer, Stephen J. Wayne, 2020-01-03 With a focus on presidential leadership Edwards Mayer and Wayne address the capacity of chief executives to fulfill their tasks exercise their powers and utilize their organizational structures to affect the output of government Richly illustrated with timely fascinating examples this text examines all aspects of the presidency Moore's Rural New Yorker, 1912 *Canadian Journal of Forest Research*, 2014 The Continuing Study of Newspaper Reading Advertising Research Foundation, 1941 *The Times Index*, 2013-05 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement

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