

Model Test

91. If x + y = k is normal to $y^2=12x$ then the value of k (2 marks)

O 3

9

 $-\frac{1}{6}$

-12

92. The sides of a triangle are in A.P. then the value of a $cos^2 \frac{c}{2} + ccos^2 \frac{A}{2} =$ (2 marks)

 \bigcirc b

- $\frac{36}{2}$
- 93. Six identical coins are arranged in a row. The number of ways in which number of tails is equal to number of heads is

(2 marks)

O 6!

 \bigcirc $\frac{6!}{3!}$

 $\bigcirc \qquad \frac{6!}{3!3!}$

 $\bigcirc \qquad \frac{6!3!}{2!}$

94. The value of $\frac{2}{1!} + \frac{2+4}{2!} + \frac{2+4+6}{3!} + \dots \infty = (2 \text{ marks})$

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O 2e

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	<u> </u>	3e
	0	$rac{e}{2}$
		o infinity of the series $3x+5x^2+\dots(-1< x<1)$ is
	O	$rac{1+x^2}{\left(1-x ight)^2}$
	0	$\frac{1-x^2}{(1+x)^2}$
		$\frac{2x}{(1-x)^2}$
	0	$\frac{2x}{(1+x)^2}$
96. If the		pair of lines $ax^2+2hxy+by^2+2gx+2fy+c=0$ $$ intersect on y-axis, then as $)$
	0	$f^2 = bc$
		$g^2 = ac$
		$f^2+g^2=1$
		af + bg = c
our attention is perpetually riveted upon the past; the men of Greece of the Renaissance did better do now; the triumphs of former ages, so far from facilitating fresh triumphs in our age, actually indifficulty of fresh triumphs by rendering originality harder of attainment. Not only is artistic achieved cumulative, but it seems even to depend upon a certain freshness 'naivete' of impulse and vision tends to destroy. Hence comes too those who has been nourished on the literary and artistic produces, a certain peevishness and undue fastidiousness towards the present, from which there seems into the deliberate vandalism which ignores tradition and in the search after originality achieves a eccentric. But in such vandalism there is none of the simplicity and spontaneity out of which greater		es engenders hope in the future of human achievement. In the study of literature and art, on the other hand, ention is perpetually riveted upon the past; the men of Greece of the Renaissance did better than any men v ; the triumphs of former ages, so far from facilitating fresh triumphs in our age, actually increase the triumphs by rendering originality harder of attainment. Not only is artistic achievement not ative, but it seems even to depend upon a certain freshness 'naivete' of impulse and vision which civilization of destroy. Hence comes too those who has been nourished on the literary and artistic production of former a certain peevishness and undue fastidiousness towards the present, from which there seems no escape a deliberate vandalism which ignores tradition and in the search after originality achieves only the ric. But in such vandalism there is none of the simplicity and spontaneity out of which great art springs; is still in canker in its core, and insincerity destroys the advantages of a merely pretended ignorance.
9		cience generates hope because the scientist 2 marks)
		studies human achievement
		does not bother about past achievements
		works for the future

Submi

simplicity and spontaneity

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