

## **Model Test**

31.  $\omega$  &  $\omega^2$  are the imaginary cube roots of unity then the value of  $|\omega|+|\omega^2|=$  (1 marks )

O 2

O 0

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32.  $\lim_{x \to \frac{\pi}{2}} \frac{\sin 2x}{\frac{\pi}{2} - x}$ 

(1 marks)

O 2

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O 0

33. If  $x^2+x+1=0$  then the value of  $x^{3n}=$  (1 marks)

 $\bigcirc$  2

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 $\bigcirc$  0

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34. Choose the correct answer

(1 marks)

Every identity matrix is a scalar matrix

Every scalar matrix is an identity matrix

Every diagonal matrix is an identity matrix
a square matrix whose each element is 1 is an identity matrix
35. If A & B are two sets then (A − B)∪(B − A)∪(A∩B) is equals to (1 marks)
(A − B)
(A∩B)
О A
○ (A ∪ B)
36. If $ec{a}=(2ec{i}+ec{j}+2ec{k})$ and $ec{b}=(5ec{i}-3ec{j}+ec{k})$ then the projection of $ec{b}$ upon $ec{a}$ is
○ 3
O 4
<u> </u>
O 6
37. The centre of the hyperbola whose foci are (6, 4) and (-4, 4) is (1 marks)
(1, 2)
(-2, 0)
(3, 4)
(1, 4)
8. The locus of the equation $x^2 - 5x + 6 = 0$ is (1 marks )
the empty set
a set containing two distinct points
a pair of parallel lines
a parabola

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	f a triangle are $\sqrt{2},3,\sqrt{7}$	then the greatest ang	le is	
	f a triangle are $\sqrt{2},3,\sqrt{7}$	then the greatest ang	le is	
n ΔABC, the sides of	f a triangle are $\sqrt{2},3,\sqrt{7}$	then the greatest ang	le is	
n ΔABC, the sides of (1 marks )	f a triangle are $\sqrt{2},3,\sqrt{7}$	then the greatest ang	le is	

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