Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The eccentricity of the parabola $y^2 = -8x$ is	A. -2 B. 2 C. -1 D. 1
2	Question Image	
3	Question Image	A. $a\cos(ax + b) + c$ B. $-a\cos(ax + b) + c$
4	Question Image	
5	2π is the period of	A. $\sin\square$ B. $\tan\square$ C. $\cot\square$ D. all circular function
6	$\sin^{-1}(-x)=$	A. $\cos^{-1}1/x$ B. $-\sin^{-1}X$ C. $\cot^{-1}X$ D. None of these
7	When rational fraction is separated into partial fractions, the result is	A. an identity B. A fraction C. A partial sum D. Improper fraction
8	$\cos(a +\beta)-\cos(a-\beta) = \underline{\hspace{1cm}};$	A. $2\cos a \cos\beta$ B. $2\sin a \cos\beta$ C. -25 in a $\cos\beta$ D. $-2\sin a \sin\beta$
9	Question Image	
10	The remove the term involving xy, from $7x2 -6\sqrt{3}xy+ 13y2 -16 =0$ the angel of rotation is	A. $\theta = 30°$ B. $\theta = 45°$ C. $\theta = 60°$ D. $\theta = 75°$
11	If n is add the expansion $(a + x)^n$ has middle terms	A. 2 B. 3 C. 4 D. 5
12	If (0, 0) and (-1, 0) are end points of a diameter, then the equation of the circle is	
13	Question Image	
14	The coefficient of the second term of $(a+b)^4$ is	A. 1 B. 9 C. 3 D. 5
15	If the circumference of a circle is divided into 360 congruent parts, the angle subtended by one part at the centre of the circle is	A. 1^0 B. 1' C. 1" D. 1 rad
16	The 26th term of the A.P -2,-4,10,............is	A. 136 B. -136 C. 148 D. -148
17	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
18	The sixth term of the sequence 1,3,12,60....is	A. 1500 B. 72 C. 2160 D. 2520

19	Question Image	

A. Principle of equality of fractions
B. Rule for product of fraction
C. Rule for quotient of fraction

20	Question Image	

A. 5
B. 25
D. 3