

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\cos(3\pi/2 + \theta) = \underline{\hspace{1cm}};$	A. $\sin\theta$ B. $\cos\theta$ C. $-\sin\theta$ D. $-\cos\theta$
2	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924
3	Question Image	A. 30° B. 45° C. 60° D. 75°
4	What is the period of $\cos 6x = ?$	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
5	$\tan(\alpha - \beta) =$	
6	Question Image	
7	A diagonal matrix in which the diagonal elements are equal is called a	A. Null matrix B. Identity matrix C. Scalar matrix D. Row matrix
8	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix
9	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set $X \cup Y = 54$, then number of elements in set $X \cap Y =$	A. 4 B. 3 C. 2 D. 1
10	Question Image	A. 28 / 81 B. 28 / 243 C. 81 / 28 D. 243 / 82
11	$\sin(\sin^{-1}(1/2)) =$	A. 0 B. 2 C. ∞ D. 1/2
12	$A \cup (A \cap B) =$ -----	A. B B. A C. $A \cup B$ D. None of these
13	H.M. between 3 and 7 is	
14	The law of sines is	
15	Question Image	
16	$3x + 4 < 0$ is	A. inequality B. equation C. identity D. not inequality
17	Question Image	D. all are correct
18	Question Image	
19	Question Image	
	Archimedes approximate the function by horizontal function and the area under f by the sum	A. Parallelograms B. Squares

