Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
2	Question Image	
3	In natural logarithm the base is	A. 1 B. 0 C. 10 D. e
4	$\cos(a+\beta)-\cos(a-\beta) =$ _____ ;	A. $2\cos a \cos\beta$ B. $2\sin a \cos\beta$ C. -25 in a $\cos\beta$ D. $-2\sin a \sin\beta$
5	If $A \subseteq B$ then $A \cup B$ is	A. A B. B C. A' D. A $\cap$ B
6	The first three terms in the expansion of $(1+x)^{-2}$ are _____	A. $1 - 2x + 3x^2$ B. $1 - 2x - 3x^2$ C. $1 + 2x + 3x^2$ D. $-2 -2x + 3x^2$
7	Question Image	A. 9 B. -9 C. 0 D. 1
8	A circle which touches one side of a triangle externally and the other two sides produced is called _____	A. In-circle B. Circum cirle C. Escribed circle D. None of these
9	The set X is	A. Proper Subset of X B. Not A subset of X C. Improper Subset of X D. None of these
10	Question Image	
11	Question Image	
12	Question Image	A. A = x, B = 1 B. A = 0, B = 2 C. A = -1, B = 1 D. A = x-1, B = x+1
13	Question Image	A. 0 B. 3 C. 9 D. -3
14	Question Image	
15	The sample space for tossing a coin once is	A. {T, T} B. {H, H} C. {H, T} D. None of these
16	The position vector of a point (x, y) in xy plane is	D. none of these
17	The multiplicative inverse of $x'(-1)$ is	A. x B. a-2 C. 0 D. 1
18	$\sin^{-1}(-x)=$	A. $\cos^{-1} 1/x$ B. $-\sin^{-1}X$ C. $\cot^{-1}X$ D. None of these

19	A chord passing through the centre of the circle is called	A. the secant of the circle B. the tangent of the circle C. the arc of the circle D. the diameter of the circle
20	If -1 < x < 0, which of the following statements must be true?	A. $x < x^2 < x^3$ B. $x < x^3 < x^2$ C. $x^2 < x^3 < x$ D. $x^2 < x < x^3$