Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If S is a sample space and event set E = S then P(E) is	A. >0 B. 1 C. <1 D. 0
2	The equation of the line perpendicular to x- axis and passing through (-5,3) is	A. y -3 =0 B. x+ 3 =0 C. y- 3 =∞ D. x +5 =0
3	Which of the following sets in infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
4	A non-terminating, non-recurring decimal represent	A. A natural number B. A rational number C. An irrational number D. A prime number
5	Question Image	A. $2^2 - n - 1$ B. $1 - 2^{-n}$ C. $n + 2^{-n} - 1$ D. $2^n - 1$
6	Question Image	
7	If n is not natural number, then the expansion $(1 + x)^n$ is valid for	
8	Question Image	
9	An expression involving any of the symbols <,>,≤ or ≥ is called	A. equation B. inequality C. linear equation D. identity
10	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
11	The positive value of k for which the equation $x^2 + kx + 64 = 0$ has one of the roots 0	A. 4 B. 64 C. 8 D. All values of k
12	Question Image	D. none of these
13	The magnitude of vector a=i-3j+5k is:	A. 3 B. $\sqrt{35}$ C. $\sqrt{17}$ D. $\sqrt{35}$
14	Question Image	
15	The familiar plane curves, namely circle, ellipse, parabola and hyperbola are called:	A. cones B. conics C. nappes D. apex
16	For all points (x,y) in first quadrant	A. x > 0 , y < 0 B. x > 0 , y > 0 C. x < 0 , y < 0 D. x < 0 , y > 0
17	The set {1,-1,i,-i}	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication

18	Question Image	
19	Question Image	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
20	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. $-2 - 2x + 3x^2$