Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the roots of ax2 + b =0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0,b > 0
2	If (0, 0) and (0, -1) are end points of a diameter, then the equation of the circle is	
3	Number of ways of writing the letters of WORD taken all at a time is	A. 24 B. 4 C. 12 D. 6
4	A quadratic equation in x is an equation that can be witten in the form	A. ax²+ b = 0 B. ax³ +b²+c=0 C. ax² +bx+c=0 D. ax³ +bx³+cx=0
5	The proposition S(n) is true∀n∈N,S(k+1) true when _____is true	A. S(1) B. Both a & c C. S(k) D. None
6	Question Image	A. π B. π/6 C. -π/2 D. 2π
7	The5thand 13th terms of an A.P are 5 and-3 respectively The first term of the A.P is	A. 1 B. -15 C. 9 D. 2
8	If A and B are two disjoint events then	A. P(A∪B)=P(A)+P(B) B. P(A∪B)=P(A)-P(A∪B) C. P(A∪B)=P(A)or P(B) D. None
9	Question Image	
10	What is the circular measure of the angle between the hands of a watch at 4 O'clock	
11	Three integers are chosen at random from the first 20 integers. Then probability that their product is even, is	A. 2 / 19 B. 3 / 29 C. 17 / 19 D. 4 / 19
12	The set of all points in the plane that are equally distant from a fixed point to called a	A. Parabola B. ellipse C. Hyperbola D. Circle
13	Question Image	
		A. W

14	The symbol of irrational is	B. N C. Q D. Q'
15	If a≠ , b≠ 0 and|a=b|=|a-b|,then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60^o D. neither parallel nor perpendicular
16	Question Image	
17	The 26th term of the A.P -2,-4,10,.....is	A. 136 B. -136 C. 148 D. -148
18	Question Image	
19	If Z_1 = 1+ i, Z_2 = 2+3i , then $\|Z_1 - Z_2\|$ =?	A. √5 B. √7 C. -1-2i D. √3
20	The value of x which is unchanged by the mapping in the function defined by f ; x x^2 + 5x - 5 for x> 0 is	A. 1 B. 5 C. -5 D. -1