Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10
2	For what value of k, $3x - 2y + k = 0$ is tangent to the circle $x^2 + y^2 + 6x - 4y = 0$	A. k=0 B. k=0 or 26 C. k = 26 D. k=-13
3	Question Image	
4	The sum even binomial coefficient of $(3+2x)^5$ is _____term	A. 16 B. 30 C. 8 D. 32
5	Question Image	A. y/x B. x/y C. y/z D. None
6	Sum of two quantities is at least 20 is denoted by	A. $x + y = 20$ B. $x + y \geq 20$ C. $x + y \neq 20$ D. $x + y \leq 20$
7	Minor of an element a_{ij} is denoted by	A. M_{ij} B. A_{ij} C. $|A|$ D. None of these
8	Question Image	A. 0 B. -1 C. 1 D. not defined
9	Name the property used in $100 + 0 = 100$	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity
10	Question Image	
11	If the lines $2x-3y-1=0, 3x-y-5=0$ and $3x+py+8=0$ meet at a unique point then	A. p = -14 B. p = -1 C. p =0 D. p=12
12	If A and B are two matrices such that AB = B and BA = A then $A^2 + B^2 =$	A. 2 AB B. 2 BA C. A + B D. AB
13	Question Image	
14	Question Image	
15	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
16	If l, m, n are the d.c.'s of a line, then	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 + m^2 + n^2 = 1$ C. $l + m + n = 1$ D. $l = m = n = 1$
17	The symbol of irrational is	A. W B. N C. Q D. Q'
		A. Not effect

18	Multiplying each side of an inequality by (-1) will:	B. Change the sign
		C. Become zero
		D. Not defined

| 19 | Question Image | D. none of these |

20	Question Image	A. <i>π / 3</i>
		B. <i style="text-align: center;">π / 4</i>
		C. <i style="text-align: center;">π / 2</i>
		D. <i style="text-align: center;">π</i>