

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	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. $k=-13$
2	Let the sequence 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8, 8, where n consecutive terms have the value n, then 1025th term is	A. $2^{⁹}$ B. $2^{¹⁰}$ C. $2^{¹¹}$ D. $2^{⁸}$
3	$(A \cap B)^c =$ -----	A. $A^c \cup B^c$ B. $A^c \cup B$ C. $A^c \cap B$ D. None of these
4	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. $1/6$ D. $1/2$
5	Question Image	A. (x, y) B. (kx, y) C. (x, ky) D. (kx, ky)
6	A number A is said to be the A.M between the two numbers a and b if a, A, b are in	A. A.M B. A.P C. G.P D. G.M
7	If A is singular then $ A =$ _____	A. 1 B. 0 C. 2 D. None of these
8	If n is not natural number, then the expansion $(1 + x)^n$ is valid for	
9	Question Image	
10	The symbol _____ shall be used both for equation and identity	A. $ $
11	The point (x_1, y_1) lies outside the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ if	
12	For all points (x,y) on y-axis	A. x is positive B. $x = 0$ C. x is negative D. $y = 0$
13	Question Image	
14	Question Image	A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z
15	The period of cosec 10x is _____	
16	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. $(-a,-b)$
17	The sum of the focal distance from any point on the ellipse $9x^2 + 16y^2 = 144$ is	A. 32 B. 16 C. 18 D. 8
18	Question Image	A. quadrant I B. quadrant II C. quadrant III D. quadrant IV

A. $1^{⁰}$

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| 19 | If the circumference of a circle is divided into 360 congruent parts, the angle subtended by one part at the centre of the circle is | B. 1'
C. 1"
D. 1 rad |
| 20 | The number of divisors of 1029, 1547 and 122 are in | A. A.P.
B. G.P.
C. H.P.
D. None of these |