

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For two events A and B if $P(A) = P(A/B) = 1/4$ and $P(B/A) = 1/2$, then	A. A is sub-event of B B. A and B are mutually exclusive C. A and B are independent and $P(A/B) = 3/4$ D. None of these
2	Question Image	
3	Question Image	
4	The number of words that can be formed out of the letters of the word ASSASSINATION is	
5	64. A point (x, y, z) moves parallel to xy plane. Which of the three variables x, y, z remain fixed?	A. z B. x C. y D. x and y
6	Question Image	
7	If n is odd then the middle terms in the expansion of $(a + x)^n$ are	
8	Question Image	
9	Question Image	D. none of these
10	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
11	Question Image	A. 2×2 B. 2×3 C. 3×2 D. 3×3
12	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
13	The probability that a slip of numbers divisible by 4 is picked from the slips of number 1,2,3,4,.....10 is	A. $1/5$ B. $2/5$ C. $1/10$ D. $3/10$
14	Question Image	D. none of these
15	A diagonal matrix in which the diagonal elements are equal is called a	A. Null matrix B. Identity matrix C. Scalar matrix D. Row matrix
16	If one end of the diameter of the circle $2x^2 + 2y^2 - 8x - 4y = 2 = 0$ is (2, 3), the other end is:	A. (2,1) B. (-2,1) C. (2,-1) D. (1,-1)
17	The equation of the sphere passing thro' (0, 0, 0), (a, 0, 0), (0, b, 0), (9, 0, c) is	A. $x^2 + y^2 + z^2 + 2ax + 2by + 2cz = 0$ B. $x^2 + y^2 + z^2 - 2ax - 2by - 2cz = 0$ C. $x^2 + y^2 + z^2 - ax - by - cz = 0$ D. $x^2 + y^2 + z^2 + ax + by + cz = 0$
18	There is no integer n for which 3^n is	A. Odd B. even C. Natural D. Prime
19	Question Image	

