

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Form a group of 5 men and 3 women, a committee of 4 persons is to be selected randomly. The probability that there is a majority of men is	A. 1/4 B. 1/3 C. 1/2 D. 1/6
3	Question Image	
4	Composition of functions is	A. Non-commutative (fg ≠ gf) B. non-associative [8(fh) ≠(8f)h] C. Commutative (fg = gf) D. f of-1≠ 1
5	<u>O_(</u> 0,0 <u>)</u> is called:	A. Position vector B. Free vector C. Unite vector D. Null vector
6	Question Image	
7	The slope of the tangent at the point (h,h) of the circle $x2 +y2 =a2$ is	A. 0 B. 1 C1 D. h
8	Question Image	A. G.P B. H.P. C. A.P. D. No particular sequence
9	If x, y, z are the pth, qth, rth terms of an A.P. and also of G.P., then x^{y-z} . y^{z-x} . z^{x-y} eqals	A. xyz B. 0 C. 1 D. None of these
10	The roots of ax2 + bx + c = 0 are always unequal if	A. b2 - 4ac = 0 B. b2- 4ac ≠ 0 C. b2- 4ac > 0 D. b2- 4ac ≥ 0
11	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. (-a,-b)
12	Name the property used in 1000 x 1 = 1000	A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity
13	Question Image	
14	If a_n = 2n -3, write the first four terms	A3, -1, 1, 3 B. 1, 3, 5, 7 C1, 1, 3, 5 D. None of these
15	The area bounded by $y = x(x^2 - 4)$ and below x - axis is	A. 4 B. 0 C4 D. 8
16	If the line $2x - y + k = 0$ is a diameter of the circle $x^2 + y^2 + 6x - 6y + 5 = 0$ then k is equal to	A. 12 B. 9 C. 6 D. 3
17	The period of tan x/7 is	A. 3π B. 7π C. 15π D. 5π
		A. (n+2) ²

18	For≥ -2 , 1+3+5++(2n+5)	B. (n-2) ² C. 2n+1 D. (n+3) ²
19	Question Image	
20	Question Image	A. 15 B. 15 i C15 i D15