

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The general term in the expansion of (a+x)n is	A. (r-1)th term B. (r+1)th term C. rth term D. none
2	For graphing a linear inequality, solid line is drawn if the inequality involves the symbols:	A. > or < B. <u>></u> or <u><</u> C. = or≠ D. = or >
3	Question Image	
4	Question Image	
5	Question Image	
6	If the line 2x-y+k=0 is a diameter of the circle x2 +y2 +6x-6y +5 =0 then k is equal to	A. 12 B. 9 C. 6 D. 3
7	Question Image	
8	If x^3 + ax^2 - a^2x - a^3 is divided by x + a , then the remainder is	A. 0 B. a ³ C. 2a ³ D2a ³
9	x = 0 is in the solution of the inequality	A. x > 0 B. 3x + 4 < 0 C. x + 3 < 0 D. x - 2 < 0
10	The product of complex numbers (a,b) and (c,d) is	A. (ac, bd) B. (ac-bd, ad+bc) C. (ab,cd) D. (ac+bd,ad-bc)
11	The set of even prime numbers is	A. (2,4,6,8,10) B. {2,4,6,8,10,12} C. {1,3,5,7,9} D. {2}
12	The contra positive of $p\to q$ is	A. $q \rightarrow p$ B. $\neg q \rightarrow \neg q$ C. $\neg p \rightarrow \neg q$ D. None of these
13	a + x is	A. A trinomial B. A binomial C. A monomial D. None of these
14	Question Image	
15	6! =	A. 360 B. 720 C. 6.5.4 D. None of these
16	The sum of the cubes of three consecutive natural number is divisible by	A. 9 B. 6 C. 5 D. 10
17	5x ³ + 3x - is a	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
18	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
19	If x+y+z++2n = 2n+1-1∀n∈W,then cube root of xyz is equal to	A. 1 B. 4
		C. 2 D. 8
20	The proposition S(k+1) is true when is true \forall K \in N	A. S(n)
		B. S(k) C. S(1)
		D. S(k-1)