Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. 3/7 B. -2/5 C. -7/5 D. -7/3
2	The complement of set A relative to universal set U is the set	A. $\{x / x \in A \wedge x \in U\}$ B. $\{x / x \notin A \wedge x \in U\}$ C. $\{x / x \in A \text{ and } x \notin U\}$ D. A-U
3	A diagonal matrix is always	A. Identity B. Triangular C. Scalar D. Non-singular
4	The proposition S(n) for any $n \in N$ is only true if $k \in N$ and	A. S(k +1) is true B. S(1) is true and S(k+1) is true whenever S (k) is true C. S(k+1) is true whenever S (k) is true D. S(k) is true
5	Question Image	
6	Two sets A and B are said to be disjoint if	
7	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 internally	
8	If one root of $5x^2 + 13x + k = 0$ be the reciprocal of the other root the value of k is	A. 0 B. 2 C. 1 D. 5
9	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
10	Question Image	A. a = -1/2, b = -1 B. a = 1, b = 2 C. a = 2, b = 3 D. None of above
11	Question Image	
12	Question Image	A. -1 B. 0 C. 1 D. Undefined
13	The point _____ is in the solution of the inequality $4x - 3y < 2$	A. (0,1) B. (2,1) C. (2,2) D. (3,3)
14	Question Image	A. A = B B. B = C C. A = C D. None of these
15	Question Image	A. $a_1 + a_2$ B. $a^2{}_1 + a^2{}_2$
16	If n is any positive integer then $n^2 > n + 3$ for	
17	Cos-1 (-x) =	A. -x B. 1/x C. tan-1 x D. π-cos-1 x
18	In one hour the minute hand of a clock turns through	

| 19 | Question Image |
| 20 | Question Image |