Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If p and q are two statements then their conjunction is denoted by	
2	Additive inverse of -a -b is	A. a B. -a + b C. a - b D. a + b
3	Roots of the equation $x^2 + 5x - 1 = 0$ are	A. Rational B. Irrational C. Complex D. None of these
4	$i^{101} =$	A. i B. i² C. -i D. -1
5	Question Image	
6	Question Image	A. $4(x^3 - 3x^2)^3 + c$ B. $3x^2 - 6x + c$
7	$4^{1+x} + 4^{1-x} = 10$ is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
8	Question Image	
9	Question Image	A. A,. B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
10	Question Image	
11	A circle drawn inside a triangle and touching its sides is called _____;	A. Circumcirle B. Incircle C. Escribed circle D. unit circle
12	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
13	The curve f(x,y) = 0 has a central symmetry if	A. f(-x,-y)=f(x,y) B. f(x,-y)=f(x,y) C. f(-x,y)=f(x,y) D. f(-x,-y)≠f(x,y)
14	Question Image	
15	Number of terms in the expansion of $(a+x)^n$ is	A. n - 1 B. n + 1 C. n + 2 D. n + 3
16	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924
17	Question Image	A. a B. 2a C. 3a D. 4a
18	Consider the equation $px2 + qx + r = 0$ where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. q = 0, r = 0,p ≠ 0 B. p = 0,qr≠ 0 C. r = 0,pq≠ 0 D. q = 0, pq≠ 0

19	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are never together is	A. 72 B. 48 C. 144 D. 20
20	Sec 30° = _____	