Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	tan(2π+θ) = _____;	A. tanθ B. -tanθ C. cotθ D. -cotθ
3	The arbitrary constants involving in the solution can be determined by the given conditions. Such conditions are called	A. Boundaries B. Variable separable C. Initial values D. None
4	Question Image	A. 0 B. 1 C. -A D. -1
5	If x - 1 is a factor of x4 - 5x2 + 4 then other factor is	A. (x + 2)2(x - 1) B. (x + 2)(x - 1)2 C. (x+2)(x2- x- 2) D. (x + 2)2(x - 1)2
6	When we expand $(a + 2b)^5$then	A. a⁵+ 10a⁴b + 40a³b²+ 80a²b³+ 80ab⁴+ 32b⁵ B. a⁵+ a⁴b + a³b²+ a²b³+ ab⁴+ b⁵ C. 5a⁵+ 4a⁴b + 3a³b²+ 2a²b³+ 1 ab⁴+ b⁵ D. None
7	Latus rectum = 4 x _____	A. focal distance of the vertex B. Chord C. Focus D. 1/2
8	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of above
9	Question Image	
10	If $f(x) = x^2$then f(-2) is	A. -2 B. 2 C. 4 D. -4
11	Question Image	
12	Question Image	
13	The first three terms in the expansion of $(1 + x)^{-1}$are	A. 1 + x + x² B. 1 - x - x² C. -1 -x + x² D. 1 - x + x²
14	If z1 = 2 + 6i and z2 = 3 + 7i then which expression defines the product of z1 and z2	A. 36 +(-32)i B. -36+32i C. 6+(-11)i D. 0, +(-12)i
15	For an A.P common difference d	A. Can be zero B. May or may not zero C. Cannot be zero D. None of these

16	Question Image	
17	$4^{1+x} + 4^{1-x} = 10$ is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
18	If $3x^4 + 4x^3 + x - 5$ is divided by $x + 1$, then the reminder is	A. 0 B. 7 C. -7 D. 5
19	Question Image	A. A parabola B. An ellipse C. A hyperbola D. A circle
20	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these