Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	3j . k x i	A. 0 B. 1 C. 3 D. 9
2	$f(x) = 2^x + 3 . 2^{2x} + 5$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
3	The 7th term of $(3^8 + 6^4 x)^{11/4}$ is	A. $-19217/3 \, x^6$ B. $189/2 \, 6^4 x$ C. $2227/12 \, x^3$ D. $-19712/3 \, x^6$
4	Question Image	D. none of these
5	If S is a sample space and event set E = S then P(E) is	A. > 0 B. 1 C. < 1 D. 0
6	Question Image	A. 2 B. 1 C. 5 D. 0
7	The expansion $(1 + x)^{-3}$ holds when	A. $|x| > 1$ B. $|x| < 1$ C. $x < 1$ D. $x > 1$
8	A square matrix all of whose elements except the main diagonal are zeros is called a	A. Null matrix B. Singular matrix C. Symmetric matrix D. Diagonal matrix
9	y=0 of the parabola $y^2 = 4ax$ is the	A. equation of directirx B. Equatio of the tangent C. Equation of axis D. equation of latus rectum
10	Question Image	B. $a^x \ln a + c$ C. $a^x + c$ D. $x \, a^x + c$
11	If $3x^4 + 4x^3 + x - 5$ is divided by x + 1, then the reminder is	A. 0 B. 7 C. -7 D. 5
12	$P \notin A$ means	A. *P* is subset of A B. *P* is an element of A C. *P does not belongs to A* D. A does not element of *P*
13	Question Image	A. 36 B. 360 C. 24 D. 6
14	The approximate increase in the area of a circular disc if its diameter increased form 44cm to 44.4cm is	A. 0.4cm B. 8.8πcm C. 17.6 πcm D. 35.2πcm
15	Question Image	
16	Question Image	A. 6x - 2 + c B. $x^3 - x^2 + x + c$ C. $6x - x^2 + c$ D. $6x^3 - x^2 + c$

17	Question Image	A. 0 B. 1 D. none of these
18	Question Image	A. [0,1[B. [0, 1] C.]0, 1[D. None of these
19	A function from X to X is denoted as	B. f : X to Y D. f : Y to Y
20	If 0 = {1,3,5.......}, then n (0) =	A. Infinite B. Even numbers C. odd integers D. 99