Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	(n + 2) (n + 1)n in factorial form is	
2	Arithmetic mean between 14 and 18 is	A. 16 B. 17 C. 15 D. 32
3	Question Image	A. 0 B. 1 C. 2 D. 4
4	The study conics, pappus used the method of:	A. analytic geometry Euclidean B. solid geometry C. Greek mathmaticians D. None of these
5	(a-1)-1 =	A. a-1 B. a C. -a D. None of above
6	If in the expansion of $(1+x)^n$, co-efficients of 2nd, 3rd and 4th terms are in A.P., then x=	A. 4 B. 5 C. 6 D. 7
7	The equation of the circle with centre (5, -2) and radius 4 is	A. (x-5)²+ (y+2) ²= 16 B. (x-5)²+ (y+2) ²= 4 C. (x-5)²+ (y-2) ²= 16 D. (x-5)²+ (y-2) ²= 4
8	Question Image	
9	The sum of co-efficient in $(1+x-3x^2)^{4163}$is	A. 0 B. 1 C. -1 D. None
10	Question Image	
11	A circle passing through the vertices of any triangle is called	A. Circumcirle B. Incircle C. Escribed circle D. Unit circle
12	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
13	Which of the following is the subset of all sets?	
14	cos 3a =_____;	A. 3sin a - 4sin3 a B. 4sin a - 3sin3 a C. 3cos3 a - 4cos a D. 4cos3a - 3cos a
15	The sum if 1,3,5,7,9..... up to 20 terms is	A. 400 B. 472 C. 563 D. 264
16	The transpose of a row matrix is a _____	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix
17	x = _____ is in the solution of 2x + 3 ≥ 0	A. 1 B. -2 C. -3

		C. -3 D. -4
18	The period of the function f(x) = $\sin^4 x + \cos^4 x$ is	A. π B. π /2 C. 2π D. None of these
19	Cos-1 (-x) =	A. -x B. 1/x C. tan-1 x D. π-cos-1 x
20	The equation of the directrix of the parabola $x^2 = 4ay$ is	A. x + a = 0 B. x - a = 0 C. y + a = 0 D. y - a = 0