Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If c is a constant number and if f is the function defined by the equation f(x) =c for all values of x, then f is differentiable at every x and f is defined by the equation f(x)	A. f B. 1 C. C D. 0
2	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$ then $p^2 + q^2 + r^2 + 2pqr$ is equal to	A. 3 B. 1 C. 2 D. -1
3	Question Image	A. π / 4 B. π / 6 C. π / 3 D. 0
4	If P = {x/x = p/q where p,q∈ Z and q≠ 0}, then P is the set of	A. Irrational numbers B. Even numbers C. Rational numbers D. Whole numbers
5	A sequence having no last term is called	A. arithmetic sequence B. Geometric sequence C. Finite sequence D. Infinite sequence
6	If p and q are two statements then their conjunction is denoted by	
7	Question Image	A. A²- 5A + 7I = 1 B. 2A²- 3A + 7I = 0 C. A²- 5A + I = 0 D. A²- 5A + 7I = 0
8	Question Image	A. 0 B. 1 C. -A D. -1
9	The multiplicative inverse of x such that x = 0 is	A. -x B. does not exist C. 1/x D. 0
10	Question Image	A. 12 B. 13 C. 14 D. 15
11	If the graph of f is entirely below the x-axis, then the value of definite integral is	A. = 0 B. < 0 C. > 0 D. None
12	Question Image	A. A⁻ B. A^t C. -A D. A
13	Question Image	
14	The nth term of an A.P., is 12-4n. Its common difference is	A. 8 B. 4 C. 4 D. 16
15	Question Image	A. 2x cos x2 B. -2xcosxsinx C. 2x Sin x2 D. -Sin x2
16	If 2x +y + λ =0 is normal to parabola y2 =-8x,λ= _____	A. 12 B. 8 C. 24

		D. -24
17	Question Image	A. 0 B. U C. u/2 D. log u
18	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
19	w^{-1}= _____	A. 0 B. 1 C. w D. w²
20	99th term of the series 2 + 7 + 14 + 23 + 34 + ... is	A. 9998 B. 9999 C. 10000 D. None of these