Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A function in which the variable appears as exponent is called:	A. An identity function B. A logarithmic function C. an exponential function D. A rational function
2	The number of real tangents that can be drawn to the ellipse $3x^2 + 5y^2 = 32$ passing thro. (3, 5) is	A. 0 B. 1 C. 2 D. Infinite
3	Question Image	A. 0 B. -1 C. 1/2 D. 1
4	The point which divides the line segment joining the points (a, b) and (c, d) in the ratio 2 : 3 internally is	D. none of these
5	Question Image	A. 0 B. -1 C. 1
6	Question Image	A. sec x tan x B. $\cos^2 x$ C. $\sin^2 x$ D. $\sec^2 x$
7	The proposition S(n) is true $\forall n \in N, S(k+1)$ true when _____ is true	A. S(1) B. Both a & c C. S(k) D. None
8	The period of|sin2x| is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
9	A circle passing through the vertices of any triangle is called _____	A. In circle B. Circum circle C. Escribed circle D. None of these
10	Question Image	
11	Question Image	
12	Question Image	
13	The multiplicative inverse of 1 - 2i is	
14	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
15	Question Image	
16	If sin 6θ + sin 4θ + sin 2θ, then θ =	
17	Cos 60° = _____	A. 1 B. 2 C. 1/2 D. 3
18	A card is drawn from a pack of cards numbered 2 to 53. the probability that the number on the card is prime number less than 20 is	A. 2 / 13 B. 4 / 13 C. 5 / 13 D. 8 / 13
19	The sum of the even coefficients in the expansion $(1 + x)^n$ is	A. n^2 B. 2^{n-2} C. 2^{n-1} D. 2^n

| 20 | Question Image |