Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The coefficient of x^{18} in $(ax^4-bx)^9$ after expansion is	A. $84a^3b^6$ B. $22a^3b^6$ C. $27a^4b^5$ D. $28a^3b^6$
2	If a,β are the roots of $ax^2+bx+c=0$, the equation whose roots are doubled is	A. $ay^2+2by+c=0$ B. $ay^2+2by+4c=0$ C. $ay^2+2by+c=0$ D. $ay^2+by+4c=0$
3	Question Image	
4	Question Image	A. $360°$ B. $180°$ C. $90°$ D. None of these
5	Question Image	
6	Question Image	
7	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. $y - a = 0$
8	$\sin 50°-\sin 70°+\sin 10°$ is equal to	A. 1 B. 0 C. 1/2 D. 2
9	The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is	A. 1/5 B. 1/36 C. 1/7 D. 1/63
10	Question Image	A. -1 B. 0 C. 1 D. None of these
11	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
12	A function of the form $p(x)/Q(x)$ is called:	A. Rational function B. Logarithmic function C. Exponential function D. Hyperbolic function
13	$\forall x,y\in R$ and $x < 0$, $y < 0$, which one is true	A. $xy < o$ B. $xy = o$ C. $xy > o$ D. None of these
14	Question Image	
15	Range of $\cot\theta$ is	A. $(+\infty$ to $-\infty)$ B. (-1 to +1) C. (-5 to +5) D. Set of even numbers only
16	If n is not natural number, then the expansion $(1 + x)^n$ is valid for	

17	a chord passing through the focus of a parabola is called a:	A. Focal chord B. Latus rectum C. Tangent D. Directrix
18	Question Image	A. A⁻ B. A^t C. -A D. A
19	Question Image	
20	Question Image	