Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	An equation containing at least one derivative of a depends variable with respect to independent variable is a (an)	A. Implicit equation B. Differential equation C. General equation D. None of these
2	Question Image	
3	The probability to get an odd number in a dice thrown once is	A. 1/2 B. 1/6 C. 1/3 D. 2
4	A right angle is the angle of measure	A. 90' B. 60° C. 60" D. 90°
5	If a,β are the roots of ax2+bx+c=0,the equation whose roots are doubled is	A. ay2 +2by+c=0 B. ay2+2by+4c=0 C. ay2+2by+c=0 D. ay2+by+4c=0
6	Question Image	A. 405 / 256 B. 504 / 259 C. 450 / 263 D. None
7	An equation of the form ax + by = k is homogeneous linear equation when:	
8	The distance between the points A(3,1) and B(-2,-4) is	A. 5 C. 25 D. 10
9	Question Image	
10	Apollonius was a:	A. Rocket B. Muslims scientist C. Greek mathematicians D. Method of finding conics
11	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
12	If C is the mid point of AB and P is any point outside AB, then	
13	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
14	If the focus lies on the y-axis with coordinates f(0,a) and directrix of the parabola is y = -a, the equation of parabola is:	A. y² = -4 ax B. x² = 4ay C. x² = -4ay D. y² = 4ax
15	Question Image	A. 3 B. 2 C. 8 D. 0
16	Question Image	A. 2C B. C³ C. 1 D. 0
17	The general solution of tan 3x = 1 is	
18	Question Image	
19	$x^4 - 3x^3 + 3x + 1 = 0$ is called _____	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
		A. (a + b)c = a . c + bc

20	Question Image	B. a + b = b + a C. (a + b) + c = a + (b + c) D. a(b+ c) = ab + ac