Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	$(x + 2)^2 = x^2 + 4x + 4$ is	A. A linear equation B. A cubic equation C. A quadratic equation D. None
3	The ellipse and hyperbola are called	A. Concentric conics B. Central conics C. Both a b D. None
4	$\int x/Sin^2 x\, dx$ is equal to:	A. x cot x + ln|sinx | B. -x cot x - ln|sinx | C. x cot x - ln|sinx | D. x. tan x- ln|secx |
5	The process of finding the unknown elements in triangle is called the	A. solution of the triangle B. Mean differnece C. Engineering distance D. angle of depressin
6	The roots of the equation x2 +6x-7=0,are	A. 1 B. 2 C. 1 and -7 D. -7
7	Question Image	A. I and II quadrants B. I and III quadrants C. II and III quadrants D. II and IV quadrants
8	If n is odd then the middle terms in the expansion of $(a + x)^n$ are	
9	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
10	A relation in which the equality is true only for some values of the unknown is called	A. An identity B. An equation C. A polynomial D. None
11	A conditional is regarded as false only when the antecedent is true and consequent is	A. True B. False C. Known D. Unknown
12	$\sin^{-1} x =$	A. tan⁻¹ x B. Cosec⁻¹ x C. Cosec x D. cosec⁻¹(1/x)
13	What is the conjugate of -6 -i	A. -6 +i B. 6 + i C. -6 -i D. 6 -i
14	Question Image	
15	$Q \cup Q' =$	A. Q B. Q' C. N D. R
16	The solution of differential equation:	A. dy/dx+y/x = x²is : B. 4xy = x⁴+ c C. 4x = x⁴= c D. 4 y = x⁴+ c E. 4x=4x³ + c
17	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

18	The equation of the circle wit (-1, 1) and radius 2 is	
19	s > t then	A. (s - t)²> (t - s)² B. (s - t)²< (t - s)² C. (s - t)²= (t - s)² D. None
20	Question Image	