Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. a^x B. a^xln a
2	Question Image	
3	Question Image	B. ln(x²- x + 1) ⁴+ c
4	For f(x) = x^2 + px +1, if f(3) = 3 then P =	A. 3/7 B. -2/5 C. -7/5 D. -7/3
5	If distance between (a,2) and (0,0) is 2 then a = _____	A. 0 B. 2 C. 4
6	If B ={x/x€ Z ^ - 3 < x < 6}, then n (B) =	A. 5 B. {-3,-2,-1,0,1,2,3,4,5,6} C. 8 D. 9
7	Question Image	
8	The period of the function csc x/4 us	A. 4x B. π/4 C. 8π D. π/8
9	sin (α -β)=	A. sinα cosβ- cosαsinβ B. sinα cosβ+ cosαsinβ C. sinα cosα- cosβsin<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);">β D. sinα cos<i style="text-align:

		center; ">α- cos<i style= text-align: center;">βsinβ
10	If A and B are two sets then intersection of A and B is denoted by	
11	Question Image	
12	The tangents drawn from the point P to a circle are real and coincident if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
13	Question Image	
14	Question Image	
15	Let A,B and C be any sets such that A∪B = A∪C and A∩ B = A∩ C then	A. A = B B. B = C C. A≠ C D. A ≠ B
16	Range of cos x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - { x | - 1 < x < 1}
17	If the 4th term in the expansion of $(px + x^{-1})^m$ is 2.5 for all $x \in R$, then	
18	Question Image	D. none of these
19	y=0 of the parabola $y^2 = 4ax$ is the	A. equation of directirx B. Equatio of the tangent C. Equation of axis D. equation of latus rectum
20	The multiplicative inverse of x such that x = 0 is	A. -x B. Does not exist C. 1/x D. ±1