Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	A circle which touches one side of a triangle extermally and the other two sides produced is called	A. In-circle B. Circumcircle C. e-circle D. Point circle
3	Question Image	
4	Range of tan x is _____	A. [-1, -] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
5	Another name of quadratic equation is	A. Polynomial B. 2nd degree polynomial C. Linear equation D. simaltaneous equations
6	If the sum of even coefficients in the expansion of $(1+x)^n$ is 128 then	A. n=7 B. n=9 C. n=8 D. None
7	If a_n= 2n -3, write the first four terms	A. -3, -1, 1, 3 B. 1, 3, 5, 7 C. -1, 1, 3, 5 D. None of these
8	(7, 9) + (3, -5) =	A. (4, 4) B. (10, 4) C. (9, -5) D. (7, 3)
9	If distance between (3,b) and (0,0) is 3 then b = _____	A. 3 C. 9 D. 0
10	Question Image	A. -sin<i>θ</i> B. cos<i>θ</i> C. sin<i>θ</i> D. -cos<i>θ</i>
11	Domain of tan x is _____	A. sin<i>α</i>cos<i style="text-align: center;">β</i>- cos<i style="text-align: center;">α</i>sin<i>β</i>

| 12 | $\sin(\alpha - \beta) =$ | B. $\sin\alpha\cos\beta + \cos\alpha\sin\beta$
C. $\sin\alpha\cos\alpha - \cos\beta\sin\beta$
D. $\sin\alpha\cos\alpha - \cos\beta\sin\beta$ |

| 13 | Question Image | |

| 14 | Question Image | |

| 15 | Which of the following sets is finite | A. The set of natural numbers between 3 and 10
B. The set of rational numbers between 3 and 10
C. The set of real numbers between 0 and 1
D. The set of rational numbers between 0 and 1 |

| 16 | $\tan^{-1}(1/4) + \tan^{-1}(2/9)$ is equal to | A. $1/2\,\cos^{-1}(3/5)$
B. $1/2\,\sin^{-1}(3/5)$
C. $1/2\,\tan^{-1}(3/5)$
D. $\tan^{-1}1/2$ |

| 17 | Question Image | A. 2 x 2
B. 2 x 3
C. 3 x 2
D. 3 x 3 |

| 18 | Question Image | A. 0
B. 1
C. 2
D. 4 |

| 19 | If a > 0, b > 0, c > 0 then the roots of the equation $ax^2 + bx + c = 0$ are | A. Real and negative
B. Non-real with negative real parts
C. Real and positive
D. Nothing can be said |

| 20 | For any equilateral r :R :η :r1 :r2 :r3 = | A. 1:2:3:4:5
B. 1:2:3:3:3
C. 1:2:4:4:4
D. 2:1 :2 :2 :2 |