Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Domain of cosecθ is	
2	Question Image	A. 56 B. 7 C. 8 D. 8/7
3	3x + 4 > 0 is	A. equation B. identity C. inequality D. none of these
4	The equation of the circle with centre (h, k) and radius r is	A. (x+ h)²+ (y+ k)²= r² B. (x+ h)²+ (y - k)²= r² C. (x - h)²+ (y+ k)²= r² D. (x - h)²+ (y - k)²= r²
5	Question Image	
6	Question Image	
7	A number A is called the arithmetic mean between a and b if a, A, b is _____	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
8	The value of sin 28°cos 17°+cos 28°sin 17°is	
9	Riaz, Saba. Maria, Shehzad are to give speeches in a class. The teacher can arrange the order of their presentation in	A. 4 ways B. 12 ways C. 256 ways D. 24 ways
10	The equation of the circle wit (-1, 1) and radius 2 is	
11	If $a^x = b^y = c^z$ and a, b, c are in G.P. then x, y, z are in	A. A.P. B. G.P. C. H.P. D. None of these
12	Three numbers are chosen random without replacement from {1, 2, 3, ..., 10}. the probability that minimum of the chosen numbering is 3 or their maximum is 7	A. 7 / 40 B. 5 / 40 C. 11 / 40 D. None of these
13	The roots of ax2+bx+c=0 are	A. Rational ⇔ b2 -4 ac ≥ 0 B. Irrational ⇔ b2-4 ac > 0 C. Real ⇔ b2-4 ac ≠ 0 D. Rational⇔ b2-4 ac = 0
14	Question Image	
15	Power set of X i.e P(X) _____ under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
16	If $f(x) = x^3 - 2x^2 + 4x - 1$, then f(-2) = ?	A. 0 B. -25 C. 5 D. 45
17	The real number system contains.	A. Positive Numbers B. Negative numbers C. Zero D. (option a, b and c)
18	$2x^3 + 3x + 9$ is a _____	A. Polynomial of degree 3 B. Quadratic equation C. Cubic equation

		C. Cubic equation D. Polynomial of degree 2
19	Order (or sense) of an inequality is changed by multiplying or dividing its each side by a:	A. Zero B. one C. negative constant D. Non negative constant
20	If a≠ , b≠ 0 and|a=b|=|a-b|,then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60^o D. neither parallel nor perpendicular