Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Trival solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a.b and c
2	Question Image	A. sin x + c B. -sin x + c C. cos x + c D. -cos x + c
3	Question Image	A. Addition B. Multiplication C. Division D. Both addition and multiplication
4	QUQ, =	A. N B. R C. W D. Z
5	Question Image	B. a f(x) + c C. f(x) + a
6	The roots of the equation will be irrational if b^2- 4ac is	A. Positive and perfect square B. Positive but not a perfect square C. Negative D. Zero
7	Question Image	A. A B. B C. U D. None of these
8	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis
9	In how many ways can 5 persons be seated at a round table	A. 5! B. 4! C. 3! D. 120
10	The value of the expression $\sin\theta + \cos\theta$ lies between	
11	The set of integers is a subset of	A. The set of natural numbers B. The set of whole numbers C. The set of prime numbers D. The set of rational numbers
12	How many arrangements of the letters of the word PAKISTAN cab be made	
13	If the expansion of $(1 + x)^{20}$, then co-efficient of rth ad (r + 4)th term are equal, then r is	A. 7 B. 8 C. 9 D. 10
14	Consider the equation px2 + qx + r = 0 where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. q = 0, r = 0,p ≠ 0 B. p = 0,qr≠ 0 C. r = 0,pq≠ 0 D. q = 0, pq≠ 0
15	If a,β are the roots of the equation x2 + kx +12 = 0 such that a - β = 1, the value of k is	A. 0 B. ±1 C. ±5 D. ±7
16	Question Image	A. Multiplication property B. Additive property C. Trichotomy property D. Transitive property of inequality
17	Question Image	

18	The sum of even coefficient in the binomial expansion is	A. 2ⁿ⁺¹ B. 2ⁿ C. 2ⁿ⁻¹ D. 2n
19	If there is one-one correspondence between A and B, then we write.	A. A = B B. A⊆ B C. A⊇ B D. A ~ B
20	Area of the circle with ends of a diameter at (-3,2) and (5,-6)	A. 128π sq. units B. 64π sq. units C. 32π sq.units D. None of these