

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $P(A) + P(B)$ B. $P(A) - P(B)$ C. $P(A) \cdot P(B)$ D. $P(A) / P(B)$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. undefined
3	Sum of all the four forth roots of unity is	A. 1 B. -1 C. i D. 0
4	$(a+bi) - (c+di) =$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
5	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
6	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers B. Rational numbers C. All integers D. Irrational numbers
7	A joint equation of the lines through the origin and perpendicular to the lines $ax^2 + 2hxy + by^2 = 0$ is identical is $ax^2 + 2hxy + by^2 = 0$ if	A. $h^2 = ab$ B. $a + b = 0$ C. $a = b$ D. $a \neq b$ E. $a = b = 0$
8	The distance of the point (2,3) from origin is	B. 5 C. 2 D. 3
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. (3, 1, -2) B. (3, -2, 1) C. (2, -1, 3) D. (-1, -2, -3)
10	The inclination of a line parallel to y-axis is	
11	The distance of the point (2,-3) from y-axis is	A. 2 B. -3 C. 1 D. 5
12	The seventh term of $(x^3+1/x)^8$ is	A. 71 B. -22 C. 27 D. 28
13	$2\pi + \theta$ will have terminal side in Quad	A. I B. II C. III D. IV
14	Domain of $\tan x$ is _____	
15	If the expansion of $(1 + x)^{20}$, then co-efficient of rth and $(r + 4)$ th term are equal, then r is	A. 7 B. 8 C. 9 D. 10
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Only one real solution B. Exactly three real solution C. Exactly one rational solution

D. Non-real roots

17 $(x+a)(x+b)(x+c)(x+d) = k, k \neq 0$ is reducible to quadratic form only if

- A. $a+b=c+d$
- B. $a+c=b+d$
- C. $a+d=b+c$
- D. All are correct

18 The polynomial $x - a$ is a factor of the polynomial $f(x)$ if and only if

- A. $f(a)$ is positive
- B. $f(a)$ is negative
- C. $f(a) = 0$
- D. None of these

19 The symbol _____ shall be used both for equation and identity

- A. $
$

20 

- A. Principle of equality of fractions
- B. Rule for product of fractions
- C. Golden rule for fractions
- D. Rule for quotient of fractions