

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $A \subseteq B$ then $A \cup B$ is	A. A B. B C. A' D. $A \cap B$
2	Circle $x^2 + y^2 - 2y - y = 0$ and $x^2 + y^2 - 8y - 4 = 0$:	A. Intersect B. touch externally C. touch internally D. do not touch
3	Question Image	
4	Question Image	
5	If either $A = 0$ or $B = 0$, then $Ax^2 + By^2 + 2Gx + 2Fy + c = 0$ represents a	A. Circle B. Hyperbola C. Ellipse D. Parabola
6	The locus of the centre of a circle which touches two given circles externally is:	A. a hyperbola B. an ellipse C. a circle D. a parabola
7	Question Image	A. 0 B. $-1 < w ²$
8	A point (x,y) which satisfy a linear inequality in two variables form its	A. Solution B. Domain C. Range D. None
9	If α, β are the roots of the equation $x^2 + kx + 12 = 0$ such that $\alpha - \beta = 1$, the value of k is	A. 0 B. ± 1 C. ± 5 D. ± 7
10	Question Image	D. none of these
11	Question Image	A. A is proper subset of B B. A is an improper subset of B C. A is equivalent to B D. B is subset of A
12	The area between the x-axis the curve $y = 4x - x^2$ is :	A. $32/2$ B. 15 C. 18 D. 21
13	If five triangles are constructed having sides of the lengths indicated below, the triangle that will NOT be a right triangle is	A. 8, 15, 17 B. 3, 4, 5 C. 12, 15, 18 D. 5, 12, 13
14	When rational fraction is separated into partial fractions, the result is	A. an identity B. A fraction C. A partial sum D. Improper fraction
15	Question Image	D. none of these
16	The two parts into which 57 should be divided so that their product is 782 are	A. 43, 14 B. 34, 23 C. 33, 24 D. 44, 13
17	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
18	Question Image	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t.

addition

D. Transitive property

19 A quadratic equation in x is an equation that can be written in the form

A. $ax^2 + b = 0$

B. $ax^3 + b^2 + c = 0$

C. $ax^2 + bx + c = 0$

D. $ax^3 + bx^2 + cx = 0$

20 Question Image