

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If one root of the equation $x^2 - 3x + a = 0$ is 2 then $a =$ _____	A. 0 B. 1 C. 2 D. 3
2	The standard parabolic form of the equation $f(x) = x^2 + 4x + 1$ is	A. $x(x+4)+1$ B. $(x+2)^2 - 3$ C. $(x+4)^2 + 9$ D. $x(x-2)^2 + 1$
3	Question Image	A. $ab = -1$ B. $ab = 1$ C. $ab = 2$ D. None
4	The set $\{0, -1\}$ hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
5	Question Image	A. additive property B. multiplicative property C. additive inverse D. additive identity
6	$Q \cup Q' =$	A. Q B. $Q'$ C. N D. R
7	What is the conjugate of $-6 - i$ ?	A. $-6 + i$ B. $6 + i$ C. $-6 - i$ D. $6 - i$
8	Two cards are drawn at random from a well shuffled pack of cards. The probability that at least one of them is a face card is	A. $3 / 17$ B. $5 / 17$ C. $7 / 17$ D. $9 / 17$
9	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
10	Which of the following is a quadrantal angle	A. $100^\circ$ B. $200^\circ$ C. $170^\circ$ D. $270^\circ$
11	Which is an explicit function	A. $y = x^2 + 2x - 1$ B. $x^2 + xy + y^2 = 2$ C. $x^2 + y^2 = xy + 2$ D. All are
12	If in a set of real no $a$ is multiplicative identity then	A. $a, a = a^2$ B. $a, a = 1$ C. $a, a = 0$ D. None of these
13	$w^{-1} =$ _____	A. 0 B. 1 C. w D. $w^2$
14	Question Image	
15	Question Image	
16	Question Image	
17	The distance of the point $(a, b)$ from y axis is	A. a B. b


17 The distance of the point (a, b) from x-axis is

- B.  $\sqrt{a^2 + b^2}$
- C.  $a + b$

18 If  $\sin(\pi \cos \theta) = \cos(\pi \sin \theta)$ , then which of the following is correct?

19 If  $|a \times b|^2 + (a, b)^2 = \underline{\hspace{2cm}}$

- A.  $|a|^2 + |b|^2$
- B.  $|a|^2 - |b|^2$
- C.  $|a|^2 |b|^2$
- D. None

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- A. 8
- C. 4
- D. 64