

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	B. 0 C. 1 D. undefined
2	If two balls are drawn from a bag containing 3 white, 4 black and 5 red balls. Then the probability that the drawn balls are of different colours is	A. 1 / 66 B. 3 / 66 C. 19 / 66 D. 47 / 66
3	Question Image	
4	3, 6, 12,..... is	A. A.P B. G.P. C. H.P. D. None of these
5	The solution of the equation $3 \tan^2 x = 1$ is _____	D. none of these
6	Some of two real numbers is also a real number , this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
7	Question Image	A. images B. pre-images C. constants D. none of these
8	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
9	An equation which hold good for all values of the variables is called	A. Identity B. fraction C. mixed form D. Partial equation
10	The number of tangents to the circle $x^2 + y^2 - 8x - 6y + 9 = 0$ which pass through the point (3, -2) is	A. 2 B. 1 C. 0 D. None of these
11	Question Image	B. a f(x) + c C. f(x) + a
12	$\sin(2\pi - \theta)$	A. $\cos \theta$ B. $\sin \theta$ C. $\tan \theta$ D. $-\sin \theta$
13	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
14	The angle of depression of a point A on the ground from the top of the tower is 30° , then the angle of elevation of the top of the tower at the point A is	A. 60° B. 40° C. 41° D. 30°
15	The 5th and 13th terms of an A.P are 5 and -3 respectively The first term of the A.P is	A. 1 B. -15 C. 9 D. 2
16	The horizontal distance between the two towers is 60 m. the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30° . If the height of the taller tower is 150 m. the height of the shorter one is	A. 116 m B. 200 m C. 216 m D. ...

		D. None of these
17	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
18	Question Image	
19	If A is such that a,A,B are in A.P then A is called	A. A.M B. Common ratio C. Common difference D. None of these
20	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