

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set of all points in the plane that are equally distant from a fixed point to called a	A. Parabola B. ellipse C. Hyperbola D. Circle
2	Question Image	
3	If $y = \sin(ax + b)$, then fourth derivative of y with respect to $x =$	A. $a^4 \cos(ax + b)$ B. $a^4 \sin(ax + b)$ C. $-a^4 \sin(ax + b)$ D. $a^4 \tan(ax + b)$
4	Each complex cube root of unity is square of	A. itself B. 1 C. -1 D. the other
5	If y is an image of x under the function f , then we write	A. $y = f(x)$ B. $x = f(y)$ C. $y = x$ D. none of these
6	Question Image	A. 3×2 B. 2×3 C. 3×3 D. 2×2
7	If $ax + bx + c = 0$ is satisfied by every value of x , then	A. $b = 0, c = 0$ B. $c = 0$ C. $b = 0$ D. $a = b = c = 0$
8	Question Image	
9	i is equal	A. (1, 0) B. (0, 1) C. (1, 1) D. (0, 0)
10	Question Image	A. 2 B. 4 C. 6 D. 8
11	The line $y = 2x + c$ is a tangent to the parabola $y^2 = 16x$ if c equals	A. -2 B. -1 C. 0 D. 2
12	Question Image	
13	If $ a \times b ^2 + (a, b)^2 =$ _____	A. $ a ^2 + b ^2$ B. $ a ^2 - b ^2$ C. $ a ^2 b ^2$ D. None
14	If a, b, c are in A.P., a, b, c are in G.P. then A, m^2b, c are in	A. A.P. B. G.P. C. H.P. D. None of these
15	Question Image	
16	Question Image	
17	The principal value of $\sin^{-1}(\sqrt{3}/2)$ is	A. $-\pi/3$ B. $\pi/3$ C. $2\pi/3$ D. $\pi/2$
18	1 radian = _____	A. 180° B. 90° C. 57.296° D. 360°

D. $\frac{60}{52}$

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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. $\frac{1}{13}$

B. $\frac{2}{13}$

C. $\frac{7}{52}$

D. None of these

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Question Image