

Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
|----|---|--|
| 1 | Question Image | |
| 2 | Question Image | A. 3 B. 1 C. 4 |
| 3 | Domain of $\sin x$ is _____ | |
| 4 | $\sqrt{25}$ is a number | A. Rational B. Irrational C. Natural D. Odd |
| 5 | The multiplicative inverse of x^{-1} is | A. x B. $a-2$ C. 0 D. 1 |
| 6 | 120° degrees are equal to how many radians? | |
| 7 | In set builder notation the set $\{0, 1, 2, \dots, 100\}$ can be written as | A. $\{x / x \in \mathbb{N} \wedge x \leq 100\}$ B. $\{x / x \in \mathbb{W} \wedge x \leq 101\}$ C. $\{x / x \in \mathbb{Z} \wedge x \leq 101\}$ D. The set of first 100 whole numbers |
| 8 | If A and B are two matrices such that $AB = B$ and $BA = A$, then $A^2 + B^2 =$ | A. 2 AB B. 2 BA C. A + B D. AB |
| 9 | Question Image | D. none of these |
| 10 | 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 |
| 11 | Question Image | |
| 12 | For every positive integers n $1+5+9+\dots+(4n-3)$ is | A. $n(2n-1)$ B. $(2n-1)$ C. $n-1$ D. n |
| 13 | If a, b, c are the measures of the sides of a triangle then | |
| 14 | If the pth, qth, and rth terms of an A.P. are in G.P., then the common ratio of the G.P. is | |
| 15 | Every set is an improper subset of | A. Empty set B. Equivalent set C. Itself D. Singleton set |
| 16 | Question Image | |
| 17 | The sum of the odd coefficients in the expansion of $(a+x)^4$ is | A. 14 B. 12 C. 8 D. 4 |

A. \sin
 "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);><i></i>cos<i style="text-align: center;"></i>cos<i style="text-align: center;"></i>cos<i style="text-align: center;"></i>sin

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$$\sin(\alpha - \beta) =$$

$\cos(\alpha - \beta)$

B. $\sin(\alpha - \beta)$

C. $\sin(\alpha + \beta)$

D. $\sin(\alpha + \beta) - \cos(\alpha - \beta)$

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θ and $2k\pi + \theta$ are the _____ angles

A. Quadrantal angles

B. Coterminal

C. Allied

D. None

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$\operatorname{Im}(x + iy)$ is known as

A. Imaginary part of complex number

B. Real part of complex number

C. Complex number

D. None of above