

Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
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| 1 | If $B-A \neq \emptyset$, then $n(B-A)$ is equal to | A. $n(a)+n(c)$ B. $n(c)-n(a)$ C. $n(a)-n(c)$ D. None of these |
| 2 | If A, G, H are the arithmetic, geometric and harmonic means between a and b respectively then A, G, H are in | A. A. P. B. G. P. C. H. P. D. None of these |
| 3 | Which is not a half plane | A. $ax + by < c$ B. $ax + by > c$ C. Both A and B D. None |
| 4 | The slope of x-axis is | A. 0 B. undefined C. 1 |
| 5 | Question Image | |
| 6 | Question Image | B. $\ln(x^2 - x + 1) + c$ D. $\ln(2x - 1) + c$ |
| 7 | Question Image | A. 405 / 256 B. 504 / 259 C. 450 / 263 D. None |
| 8 | The identity element with respect to subtraction is | A. 0 B. -1 C. 0 and 1 D. None of these |
| 9 | Name the property used in $1000 \times 1 = 1000$ | A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity |
| 10 | Inequalities have _____ symbol | A. 2 B. 3 C. 4 D. 1 |
| 11 | Tangent is a periodic function and its period is _____ | A. 2π B. 3π C. π D. 4π |
| 12 | A function from X to Y is written as | B. $f : X \rightarrow Y$ D. $f : Y \rightarrow X$ |
| 13 | $\operatorname{Cosec} 60^\circ =$ _____ | |

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| 14 | Multiplicative inverse of "1" is | A. + - 1 B. 0 C. 1 D. None of these |
| 15 | If the 4th term in the expansion of $(px + x^{-1})^m$ is 2.5 for all $x \in R$, then | |
| 16 | The surface generated by lines, consists of two parts, called: | A. vertex B. apex C. nappes D. axis |
| 17 | The distance of the point (-2, -3) from the origin is | A. 2 B. -5 C. -3 |
| 18 | $p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree | A. 1 B. 2 C. 3 D. 4 |
| 19 | 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 |
| 20 | $n(n-1)(2n-1)$, for all natural numbers n, is divisible by | A. 12 B. 6 C. 2 D. 18 |