

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The locus of the centre of a circle which touches two given circles externally is:	A. a hyperbola B. an ellipse C. a circle D. a parabola
2	If A = [aij]mxpand B =[aij]pxnthen order of BA is	A. m x n B. p x n C. n x m D. None of these
3	The slope of y-axis is	A. 0 B. undefined C. 1
4	Question Image	B. 0 C. 1 D. undefined
5	$\sin^2\!\!\frac{\alpha}{\alpha}\cos^2\!\!\frac{\alpha}{\alpha}=$	A1 B. 0 C. 1 D. None of these
6	The approximate increase in the area of a circular disc if its diameter increased form 44cm to 44.4cm is	A. 0.4cm B. 8.8πcm C. 17.6 πcm D. 35.2πcm
7	Period of 2 cos x is	
8	Question Image	
9	The fifth term of an A.P. Whose first term is 5 and common difference is 3,is	A. 20 B. 17 C. 25 D. 30
10	Question Image	A. Associative property of addition     B. Associative property of multiplication     C. Commutative property of addition     D. Commutative property of multiplication
10	Question Image  Question Image	B. Associative property of multiplication     C. Commutative property of addition     D. Commutative property of
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11	Question Image	B. Associative property of multiplication     C. Commutative property of addition     D. Commutative property of
11 12	Question Image  Question Image	B. Associative property of multiplication C. Commutative property of addition D. Commutative property of multiplication $\begin{array}{c} A. \ \pi/3 \\ B. \ \pi/4 \\ C. \ \pi/6 \end{array}$
11 12 13	Question Image  Question Image  The principal value of sin <sup>-1</sup> (-1/2)	B. Associative property of multiplication C. Commutative property of addition D. Commutative property of multiplication  A. $\pi/3$ B. $\pi/4$ C. $\pi/6$ D. $-\pi/6$ A. b B. 2 C. 2b
11 12 13	Question Image  Question Image  The principal value of sin⁻¹ (-1/2)  √-1 b=  p, q, r and s are integers. If the A.M. of the roots of x2- px + q2= 0 and G.M. of the roots of	B. Associative property of multiplication C. Commutative property of addition D. Commutative property of multiplication  A. π/3 B. π/4 C. π/6 Dπ/6  A. b B. 2 C. 2b D. None of these  A. q is an odd integer B. r is an even integer C. p is an even integer
11 12 13 14	Question Image  The principal value of $\sin^{-1}(-1/2)$ $\sqrt{-1}$ b=  p, q, r and s are integers. If the A.M. of the roots of $x^2$ - $x^2$ px + $x^2$ - q2 = 0 and G.M. of the roots of $x^2$ - $x^$	B. Associative property of multiplication C. Commutative property of addition D. Commutative property of multiplication  A. π/3 B. π/4 C. π/6 Dπ/6  A. b B. 2 C. 2b D. None of these  A. q is an odd integer B. r is an even integer C. p is an even integer

		ט. None
19	Question Image	
20	$\forall a,b,c \in R, a > b \land b > c \Rightarrow a > c is$	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property