

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. <i>π</i> B. <i style="text-align: center;">2π</i> C. <i style="text-align: center;">π/2</i> D. None of these
2	Question Image	
3	Question Image	
4	Cosec 60° =	
5	{0} is a	A. Empty set B. Singleton set C. Zero set D. Null Set
6	Sand falls from a tube in such a way that it forms a cone whose height is always 4/3 times the radius of its base and radius of the base increases at the rate of 1/8 cm/sec. When this radius is 1 meter, the rate at which the amount of sand increases is	
7	r̄(4n+2) =	A. 1 B. i C1 Di
8	Question Image	
9	∫x sin xdx is equal to:	A. sin x/x + cos x B. sin x - cos x/x C. x cos x + sin x D x cos x + sin x
10	An equation containing at least one derivative of a depends variable with respect to independent variable is a (an)	A. Implicit equation B. Differential equation C. General equation D. None of these
11	xy= 2 is:	A. a constant function B. an identity function C. an improper function D. implicit function
12	The sum of the squares of three distinct real numbers, which are in G.P., is S^2 . if their sum is αS then	
13	Question Image	
14	The angles of elevation of the top of a tower at the top and the foot of a pole of height 10 m are 30° and 60° respectively. The height of the tower is	A. 10 m B. 15 m C. 20 m D. None of these
15	Question Image	
16	Question Image	
17	In a triangle if a > 45°, β > 30° then y cannot be	A. 90° B. 100° C. 10° D. 120°
18	a >b, b >c ⇒a >c is a	A. Multiplicative property B. Additive property C. Trichotomy property D. Transitive property of inequality

19	The period of tan x/7 is	Α. 3π Β. 7π C. 15π D. 5π
20	The slope of y-axis is	A. 0 B. undefined C. 1