

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set of real roots of the equation $\log(5x+4)(2x+3)^3 - \log(2x+3)(10x^2+23x+12) = 1$ is	A. $\{-1\}$ B. $\{-3/5\}$ C. Empty set D. $\{-1/3\}$
2	Question Image	
3	If sided of $\triangle ABC$ are 16,20,and 33, then the value of the greatest angle to	A. $150^\circ 20'$ B. $132^\circ 35'$ C. $101^\circ 25'$ D. $160^\circ 50'$
4	The slope of the tangent of the circle $x^3 + y^3 = 25$ at (4,3) is:	A. $-4/5$ B. $4/3$ C. $-25/4$ D. $25/3$
5	Question Image	
6	Question Image	A. 1 B. 0 C. -2 D. 3
7	Question Image	A. 1 D. -1
8	Question Image	A. Does not exist because f is unbounded B. Is not attained even though f is bounded C. Is equal to 1 D. Is equal to -1
9	The multiplicative inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
10	A right angle is the angle of measure	A. $90'$ B. 60° C. $60''$ D. 90°
11	For two vector a and b, $a+b =$ _____	A. a b B. b+a C. b-a D. None
12	Question Image	
13	Question Image	B. $a < \sup x < \sup \ln a + c$ C. $a < \sup x < \sup + c$ D. $x a < \sup x < \sup + c$
14	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$ then $p^2 + q^2 + r^2 + 2pqr$ is equal to	A. 3 B. 1 C. 2 D. -1
15	The differential equation of all st. lines which are at a constant distance to form the origin is	
16	Question Image	A. $a = a$ B. $a \leq a$ C. $a \geq a$ D. $a < \sup 2 < \sup = a$
17	Question Image	
18	The principal value of $\sin^{-1}[-\sqrt{3}/2]$ is	A. $5\pi/3$ B. $-2\pi/3$ C. $-\sin^{-1}(\sqrt{3}/2)$ D. $\pi/3$

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- 19 The study conics, pappus used the method of:
- A. analytic geometry Euclidean
 - B. solid geometry
 - C. Greek mathematicians
 - D. None of these
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20 Question Image
