

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. 1 B. 3 C. 2-i D. -1</p>
2	The sides of a right angled triangle are in A.P The ratio of sides is	<p>A. 1:2:3 B. 3:4:5 C. 2:3:4 D. 5:8:3</p>
3	Parametric equation of circle : $x^2+y^2+r^2$, are	<p>A. $r^1 = x \cos \theta$ $r^{\sup>2</sup>} = y \sin \theta$ B. $x = r \cos \theta$ $y = r \sin \theta$ C. $x = r \sin \theta$ $y = r \cos \theta$ D. $x = r^{\sup>1</sup>} \cos \theta$ $y = r^{\sup>2</sup>} \sin \theta$</p>
4	Union of the sets of rational and irrational numbers is called 6th set of	<p>A. Natural numbers B. Real numbers C. Whole numbers D. Prime numbers</p>
5	If e,e' be the eccentricities of two conics S=0 and S' =0 and if $e^2 + e'^2 = 3$ then both S and S' can be	<p>A. Hyperbola B. Parabolas C. Ellipses D. None of these</p>
6	1,1/3,1/5,1/7,1/9..... is a	<p>A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series</p>
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	The number of subset of {0} is	<p>A. 1 B. 2 C. 3 D. None</p>
9	If $z=(x,y)$ then z has no multiplicative inverse when	<p>A. $x \neq 0, y = 0$ B. $x = 0, y = 0$ C. $x = 0, y \neq 0$ D. None of these</p>
10	Area bounded between the curve $xy=2$ and the lines $x=1$ and $x=2$	<p>A. In2 square units B. In$\sqrt{2}$ square units C. In4 square units D. Square units</p>
11	The extraction of cube root of a given number is a	<p>A. Unary Operation B. Binary Operation C. Relation D. None of these</p>
12	$w^73=$ _____	<p>A. 0 B. 1 C. w D. $w^{\sup>2</sup>}$</p>
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. 0 B. 1 D. -1</p>
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	$\tan^{-1}(1/4) + \tan^{-1}(2/9)$ is equal to	<p>A. $1/2 \cos^{\sup>-1</sup>}(3/5)$ B. $1/2 \sin^{\sup>-1</sup>}(3/5)$ C. $1/2 \tan^{\sup>-1</sup>}(3/5)$ D. $\tan^{\sup>-1</sup>}1/2$</p>

A. $-\sin^{\sup>-1</sup>}(3/4)$
B. $-\cos^{\sup>-1</sup>}(3/4)$
C. $-\tan^{\sup>-1</sup>}(3/4)$
D. $-\cot^{\sup>-1</sup>}(3/4)$

$\cos \theta$

B. $\cos \theta$

C. $\sin \theta$

D. $-\cos \theta$

16 Question Image

17 Question Image

18 Out of 40 consecutive natural numbers, two are chosen at random. Probability that the sum of the numbers is odd, is

- A. $\frac{14}{29}$
- B. $\frac{20}{39}$
- C. $\frac{1}{2}$
- D. n

19 Question Image

- A. $\sin h x$
- B. $\cos h x$
- C. $\sec h x$
- D. $\operatorname{cosec} h x$

20 If a polynomial $p(x)$ is divided by $x-c$, then the remainder is

- A. $p(x)$
- B. $x-c$
- C. c
- D. $P(c)$