

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A person standing on the bank of a river observes that the angle subtended by a tree of the opposite bank is 60° , when he retreats 40 m from the bank, he finds the angle to be 30° . The height of the tree and the breadth of the river are	
2	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
3	The latus rectum of the ellipse $5x^2 + 9y^2 = 45$ is	A. 10 / 3 B. 5 / 3 C. 3 / 5 D. 3 / 10
4	<input type="text" value="Question Image"/>	
5	The set $(\mathbb{Z}, +)$ forms a group	A. Forms a group w.r.t addition B. Non commutative group w.r.t multiplication C. Forms a group w.r.t multiplication D. Doesn't form a group
6	Φ set is the _____ of all sets?	A. Subset B. Union C. Universal D. Intersection
7	<input type="text" value="Question Image"/>	A. A B. A' C. U D. U'
8	In the interval $0 \leq x \leq \pi$, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
9	<input type="text" value="Question Image"/>	
10	<input type="text" value="Question Image"/>	
11	If a_1 and r are the first term and the common ratio respectively then $(n + 1)$ th term of the G.P. is	A. 0 B. $a ₁ r ⁿ⁻¹$ C. $a ₁ r ⁿ⁺¹$ D. $a ₁ r ⁿ$
12	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
13	$\sqrt{x} = \text{_____}$ if is a prime number	A. Rational no B. Natural no C. Irrational no D. Complex no
14	<input type="text" value="Question Image"/>	B. $\sin 2x + c$ C. $-\sin 2x + c$
15	The area of sector with central angle of 1 radians in a circular region whose radius is 2 m is	
16	If $z = (x, y)$, then $\bar{z} =$	A. $(-x, y)$ B. $(x, -y)$ C. $(-x, -y)$ D. None of these
17	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 internally	
18	<input type="text" value="Question Image"/>	
19	If the exponent in the binomial expansion is 6, then the middle term is	A. 2nd term B. 3rd term C. 4th term

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An event having more than one sample point is called

- A. Certain event
- B. Compound event
- C. Simple event
- D. None