

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\tan(\alpha - \beta) =$	
2	Question Image	
3	Range of $\cot x$ is _____	A. [-1, 1] B. \mathbb{R} C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
4	Question Image	
5	Question Image	A. [0, 1[B. [0, 1] C.]0, 1[D. None of these
6	Any recurring decimal represents a	A. Irrational no B. Integer C. Rational no D. None of these
7	Let $P(x_1, y_1)$ and $Q(x_2, y_2)$ be two points in the co-ordinate plane. Let $d =$ distance between P and Q	
8	The multiplicative inverse of -1 in the set $\{1, -1\}$ is	A. 1 B. -1 C. ± 1 D. 0 E. Does not exist
9	Question Image	A. $\sec 3x + c$ B. $-\operatorname{cosec} 3x + c$
10	The set of integers is a subset of	A. The set of natural numbers B. The set of whole numbers C. The set of prime numbers D. The set of rational numbers
11	The vertex of the standard position angles lies on	A. (0, 0) B. (0, 1) C. (1, 0) D. (1, 1)
12	The law of sines can be used to solve oblique triangle when following information is given:	A. Two angles and a side B. Two sides and an angle opposite one of the given sides C. Two sides and the angle between two sides D. Option a and b
13	Question Image	A. $16/7$ B. $6/17$ C. $7/16$ D. None of these
14	The function $\{f(x, y) \mid y = ax^2 + bx + c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
15	Question Image	A. (1, 3) B. (-1, -3) C. (1, -3) D. (-1, 3)
16	If a, b, c, d, e, f are in A.P., then $e - c$ is equal to	A. $2(c - a)$ B. $2(f - d)$ C. $2(d - c)$ D. $d - c$
17	Question Image	
18	Question Image	

19

Question Image 

- A. Scalar matrix
- B. Identity matrix
- C. Null matrix
- D. Symmetric matrix

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If the sum of even coefficients in the expansion of $(1+x)^n$ is 128 then

- A. $n=7$
- B. $n=9$
- C. $n=8$
- D. None