

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Associative law of multiplication	A. $ab = ba$ B. $a(bc) = (ab)c$ C. $a(b+c) = ab + ac$ D. $(a + b)c = ac + bc$
2	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian
3	If A and B are two sets then any subset R of $B \times A$ is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
4	What is the period of $\cos 6x$ =?	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
5	Question Image	A. 0 B. 2 C. $4/3$ D. $5/3$
6	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
7	Question Image	
8	If one root of the equation $ix^2 - 2(i + 1)x + (2 - i) = 0$ is $2 - i$, then the other root is	A. $-i$ B. $2 + i$ C. i D. $2 - i$
9	Question Image	
10	The roots of $(b-c)x^2 + (c-a)x + a-b = 0$ are equal if	A. $2b = a+c$ B. $2a = b+c$ C. $2c = a+b$ D. $a + b + c = 0$
11	The equation of the directrix of the parabola $x^2 = 4ay$ is	A. $x + a = 0$ B. $x - a = 0$ C. $y + a = 0$ D. $y - a = 0$
12	Question Image	
13	$x = \underline{\hspace{2cm}}$ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4
14	Question Image	
15	If $x - 2$ is a factor of $ax^2 - 12x + a = 2a$, then $a = \underline{\hspace{2cm}}$	A. -5 B. 5 C. 0 D. 1
16	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. $4 : 4!$ B. $4!$ C. $5!$ D. $4! + 4!$
17	Question Image	
18	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis

19

The series obtained by adding the terms of a geometric sequence is called

- A. Infinite series
- B. Arithmetic series
- C. Geometric series
- D. Harmonic series

20

A relation in which the equality is true for all values of the unknown is called _____

- A. An identity
- B. An equation
- C. A polynomial
- D. None of these