

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The additive inverse of $\frac{2}{3}$ is	A. $\frac{3}{2}$ B. $-\frac{2}{3}$ C. $-\frac{3}{2}$ D. 0
3	The first three terms in the expansion of $(1+x)^{-1}$ are	A. $1+x+x^2$ B. $1-x-x^2$ C. $-1-x+x^2$ D. $1-x+x^2$
4	Let the sequence 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8, 8, where n consecutive terms have the value n, then 1025th term is	A. 2^9 B. 2^{10} C. 2^{11} D. 2^8
5	The 7th term of $(3^8 + 6^4 x)^{11/4}$ is	A. $-19217/3 x^6$ B. $189/2 6^4 x^4$ C. $2227/12 x^3$ D. $-19712/3 x^6$
6	Question Image	
7	Question Image	A. y/x B. x/y C. y/z D. None
8	Some of two real numbers is also a real number , this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
9	Question Image	A. 3K B. K2 C. K3 D. K
10	The range of function $f(x)=-x^2+2x-1$ is	A. R B. $(-\infty, 0]$ C. $(-\infty, 1]$ D. $[0, \infty)$
11	What is the value of $\cos^{-1}(1/2)$?	A. $\pi/3$ B. $\pi/4$ C. $3\pi/2$ D. $\pi/6$
12	The period of $\tan x/7$ is	A. 3π B. 7π C. 15π D. 5π
13	Question Image	
14	Question Image	
15	Question Image	
16	$\cos 2a =$ _____;	A. $\cos^2 a - \sin^2 a$ B. $2\cos^2 a - 1$ C. $1 - 2\sin^2 a$ D. All of these
17	Question Image	A. The law of cosines B. The law of sines C. The law of tangents D. None of these
18	In a country 55% of the male population has houses in cities while 30% have houses both in cities and in villages find the percentage of the population that has houses only in villages	A. 45 B. 30 C. 25

D. 50

19 The seventh term of an A.P whose first term is P and common difference is q. is

- A. $P-6q$
- B. $P+6q$
- C. $P-4q$
- D. $P-nq$

20 Name the property used in $100 + 0 = 100$

- A. Additive inverse
- B. Multiplicative inverse
- C. Additive identity
- D. Multiplicative identity