

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplicative identity C. Associative law of multiplication D. <b>Multiplicative inverse</b>
2	The general solution of the differential equation $x \, dy / dx = 1 + y$ is:	A. 2 B. <b>1</b> C. 3 D. None
3	What is the period of $6 \sin x = ?$	A. $\pi$ B. $-\pi$ C. $\pi/2$ D. <b><math>2\pi</math></b>
4	Question Image	
5	Question Image	A. <b><math>n!</math></b> B. $0!$ C. 1 D. None of these
6	$3x + 4 \geq 0$ is	A. equation B. <b>inequality</b> C. identity D. none of these
7	Question Image	
8	For each natural number $n$ , $n(n+1)$ is	A. <b>an even</b> B. an odd C. multiple of 3 D. Irrational
9	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. <b>NAAIG</b> C. IAANG D. INAGA
10	Question Image	
11	The system of measurement in which the angle is measured in degrees, minutes and seconds is called the	A. circular system B. CGS system C. <b>sexagesimal system</b> D. none of these
12	The maximum value of the quadratic function $f(x) = -2x^2 + 20x$ , is	A. 4 B. 3 C. <b>50</b> D. 7
13	The middle term(s) of $(a+x)^{11}$ is	A. 6th term B. 6th or 7th C. 7th term D. <b>6th and 7th</b>
14	If $\sin A = \cos A$ , $0^\circ < A < 90^\circ$ then $A$ is equal to	A. 1 B. $1/2$ C. <b>0</b> D. None of these
15	Question Image	
16	Question Image	
17	Any recurring decimal represents a	A. Irrational no B. Integer C. <b>Rational no</b> D. None of these
18	$\tan(-135^\circ) = \theta$	A. 0 B. <b>1</b> C. 2 D. $\sqrt{2}$

D. 3

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Question Image

- A. Rational
- B. Irrational
- C. Natural
- D. Odd

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Question Image

- A. 0
- B. -2
- C. 1
- D. 4