

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The 60th part of one minute is called	A. Degree B. Second C. Radium D. None of these
2	If A and B are two sets then intersection of A and B is denoted by	
3	A function of the form $p(x)/Q(x)$ is called:	A. Rational function B. Logarithmic function C. Exponential function D. Hyperbolic function
4	Question Image	A. $a = 4, b = 1$ B. $a = 1, b = -4$ C. $a = 0, b = 4$ D. $a = 2, b = 4$
5	If $f(x) = x^3 - 2x^2 + 4x - 1$ then $f(0)$ is	A. 0 B. 1 C. -1 D. none of these
6	20. 19. 18. 17= _____	
7	Question Image	D. none of these
8	The first three terms in the expansion of $(1 + x)^{-2}$ are _____	A. $1 - 2x + 3x^2$ B. $1 - 2x - 3x^2$ C. $1 + 2x + 3x^2$ D. $-2 - 2x + 3x^2$
9	Question Image	
10	Question Image	
11	The domain of $f(x) = \log x$ is	A. $[0, \infty)$ B. $(0, \infty)$ C. $[0, \infty)$ D. $[-\infty, \infty)$
12	Question Image	
13	Question Image	A. 2 B. 4 C. 8 D. 12
14	If $ a  =  b  =  a+b  = 1$ , then $ a-b $ is equal to:	A. 1 B. $\sqrt{3}$ C. $\sqrt{2}$ D. $\sqrt{5}$

15  $\sin(\alpha + \beta) - \sin(\alpha - \beta) =$

- A.  $4 \cos \alpha \sin \beta$   
B.  $2 \cos \alpha \sin \beta$   
C.  $4 \cos \alpha \cos \beta$   
D.  $4 \sin \alpha \sin \beta$

16 If  $a_1 = 3$ ,  $r = 2$ , then the  $n$ th term of the G.P. is

- A.  $3 \cdot 2^{n-1}$   
B.  $3 \cdot 2^n$   
C.  $3 \cdot 2^{n+1}$   
D.  $3 \cdot 2^{n-1}$

17 Question Image

18 The distance of the point (2,3) from y-axis is

- A. 2  
B. 3  
C. 5

19 The sum of all positive integral multiple of 5 less than 100 is

- A. 950  
B. 760  
C. 1230  
D. 875

20  $x = \sin^{-1} 3$ , then the value of  $\sin x$  is

- A.  $\sqrt{3/2}$   
B. 3  
C. Not possible  
D. -1