

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Find the next two terms of 7, 9, 12, 16,...	A. 18, 20 B. 19, 22 C. 20, 25 D. 21, 27
2	Which of the following us a scalar	A. displacement B. velocity C. acceleration D. density
3	Question Image	
4	The expansion of $(1 + 2x)^{-2}$ is valed if	A. $ x  < 1/2$ B. $ x  < 1$ C. $ x  < 2$ D. $ x  < 3$
5	The angle between the vectors $3i + j - k$ and $2i - j + k$ is	
6	The eccentricity of the conic $9x^2 - 16y^2 = 144$ is	A. 4/5 B. 5/4 C. 4/3 D. 3/4
7	Question Image	
8	The square of the distance between two points $P(x_1, y_1)$ and $Q(x_2, y_2)$ is	
9	Question Image	A. $2x \cos x^2$ B. $-2x \cos x \sin x$ C. $2x \sin x^2$ D. $-\sin x^2$
10	Which of the following is a vector.	A. work B. time C. density D. electric field
11	Question Image	
12	In $\Delta ABC$ if $\gamma = 90^\circ$ then the Pythagoras theorem is	A. $b^2 + c^2 = a^2$ B. $a^2 + b^2 = c^2$ C. $a^2 + c^2 = b^2$ D. None of these
13	Question Image	A. A B. B C. U D. None of these
14	If $A \cap B = B$ , then $n(A \cap B)$ is equal to	A. $n(a)$ B. $n(a) + n(c)$ C. $n(c)$ D. None of these
15	The distance of point $P(x, y)$ from focus in a parabola $y^2 = 4ax$ , is:	A. $2a$ B. $a$ C. $x + a$ D. $x - a$
16	Question Image	
17	Three dice are thrown together. The probability of getting a total of at least 6 is	A. $103 / 108$ B. $10 / 216$ C. $93 / 108$ D. None of these
18	If $A \subseteq B$ , and $B$ is a finite set, then	A. $n(a) < n(B)$ B. $n(B) < n(A)$ C. $n(A) \leq n(B)$ D. $n(A) \geq n(B)$
		A. $36 + (-32)i$

19 If  $z_1 = 2 + 6i$  and  $z_2 = 3 + 7i$  then which expression defines the product of  $z_1$  and  $z_2$

- B.  $-36+32i$
- C.  $6+(-11)i$
- D.  $0, +(-12)i$

20 Which of the following statement is true?

- A. A set is a collection of non-empty object
- B. A set is a collection of only numbers
- C. a set is any collection of things
- D. a set is well-defined collection of objects