

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	D. none of these
2	<input type="text" value="Question Image"/>	C. $\ln f(x) + c$ D. $f(x) - c$
3	The distance between the points (0 , 0) and (1, 2) is	A. 5 C. 0 D. 3
4	$2\cos^2 a/2 = \underline{\hspace{2cm}}$ ;	A. $1+\sin a$ B. $1-\sin a$ C. $1+\cos a$ D. $1-\cos a$
5	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
6	$A \cup (A \cap B) = \underline{\hspace{2cm}}$	A. B B. A C. $A \cup B$ D. None of these
7	<input type="text" value="Question Image"/>	A. 0 B. $-1 - w^{\sup} 2^{\sup}$
8	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
9	AB is a vertical pole and C is its middle point. The end A is on the level ground and P is any point on the level ground other than A. the portion CB subtends an angle $\beta$ at P. If $AP : AB = 2 : 1$ then $\beta =$	
10	<input type="text" value="Question Image"/>	A. 1 B. -i C. i D. 0
11	In how many ways can 5 persons be seated at a round table	A. 5! B. 4! C. 3! D. 120
12	If origin is the mid point of (a,3) and (5,b) then	A. $a = -5, b = -3$ B. $a = 5, b = 3$ C. $a = -5, b = 3$ D. $a = 5, b = -3$
13	<input type="text" value="Question Image"/>	A. x-axis B. y-axis C. z-axis D. None of these
14	<input type="text" value="Question Image"/>	
15	If $D = \{a\}$ , the $P(D) =$	A. $\{a\}$ B. $\{ \emptyset, \{a\} \}$

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C. {a}

D. {a}

16

17

- A. Polynomial
- B. Equation
- C. Improper rational fraction
- D. Proper rational fraction

18 The point of concurrency of the medians of a triangle is called

- A. incentre
- B. circumcentre
- C. e-centre
- D. centroid

19 The conic is a parabola if

- A.  $e < 1$
- B.  $e > 1$
- C.  $e = 1$
- D. None of these

20

- A.  $a^2 + b^2 + c^2$
- B.  $4a^2 + b^2 + c^2$
- C.  $4abc$
- D. None