

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	
2	The order of the differential equation of all conics whose axes coincide with the axes of coordinates is	A. 2 B. 3 C. 4 D. 1
3	<input type="text" value="Question Image"/>	A. 0 B. abc C. 1/abc D. None of these
4	<input type="text" value="Question Image"/>	
5	The product of the four fourth roots of unity is	A. 0 B. 1 C. -1 D. None of these
6	The maximum value of $\sin x + \cos x$ is	
7	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a & b D. None
8	<input type="text" value="Question Image"/>	
9	For any integer k, $w^n = \text{_____}$ when $n = 3k$	A. 1 B. 2 C. 0 D. -4
10	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 internally	
11	The coordinates of a point P(x,y) referred to XY-system are	A. (x+y,y+k) B. (x-h,y-k) C. (x,y) D. (x-h,y-k)
12	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. $2^{\sup>9</sup>}$ B. $2^{\sup>10</sup>}$ C. $2^{\sup>11</sup>}$ D. $2^{\sup>8</sup>}$
13	Range of $y = \sec x$ is	A. $-1 \leq y \leq 1$ B. $y \geq 1$ or $y \leq -1$ C. $y \leq 1$ or $y \geq -1$ D. $-\infty &lt; y &lt; +\infty$
14	<input type="text" value="Question Image"/>	D. both a & c
15	<input type="text" value="Question Image"/>	
16	If the angle between two vectors $\underline{u}$ and $\underline{v}$ is 0 or $\pi$ , then the vectors $\underline{u}$ and $\underline{v}$ are:	A. Orthogonal B. Collinear C. Perpendicular D. None of these
17	<input type="text" value="Question Image"/>	A. -1 B. 0 C. 1 D. undefined
18	<input type="text" value="Question Image"/>	A. 0 B. Independent of a C. Independent of b D. Independent of c
19	For non-trivial solution  A  is	A. non zero B. A = 0 C.  A  = 0 D. ...

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A vertical pole is 8m high and the length of its shadow is 6m. The angle of elevation of the sun of the moment is

- A. 57°
- B. -48°
- C. 27°
- D. 53°