

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	We solve the system of non-homogeneous linear equations by	A. a and b B. b and c C. c and a D. a,b and c
2	Question Image <input style="width: 100%; height: 15px;" type="text"/>	
3	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a b D. None
4	Question Image <input style="width: 100%; height: 15px;" type="text"/>	A. $C^r C^{n-r}$ B. $C^{r+1} C^{n-r+1}$ C. $C^{r+1} C^{n-r}$ D. None
5	If $y = 2x$, then	A. $y^1 - \ln 2y = 0$ B. $y^2 - (\ln 2)^2 y = 0$ C. $y^2 - (\ln 2)y^1 = 0$ D. All are correct
6	Question Image <input style="width: 100%; height: 15px;" type="text"/>	A. $\pi / 4$ B. $\pi / 6$ C. $\pi / 3$ D. 0
7	If $e > 1$, then the conic, is:	A. Ellipse B. Parabola C. Hyperbola D. None of these
8	If $f(\sqrt{x}) = \sin x$, then $f'(x) =$ _____;	A. $2x \cos x^2$ B. $\cos x^2$ C. $\cos \sqrt{x}$ D. None of these
9	The distance between the points A(3,1) and B(-2,-4) is	A. 5 C. 25 D. 10
10	The axis of the parabola $x^2 = 4ay$ is:	A. $y = 0$ B. $x = 0$ C. $x = -a$ D. $y = a$
11	Conic sections or simply conics are the curves obtained by cutting a right circular cone by	A. a line B. two lines C. a plane D. two planes
12	The value of x for which the polynomials $x^2 - 1$ and $x^2 - 2x + 1$ vanish simultaneously is	A. 2 B. 1 C. -1 D. -2
13	The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is	A. 18 B. 6 C. 3 D. 0
14	Question Image <input style="width: 100%; height: 15px;" type="text"/>	A. 0 B. 1 D. -1
15	Cosec $60^\circ =$ _____	
16	If $k^2x^2 + 2hxy - 4y^2 = 0$ represents two perpendicular lines then	A. $k = 2$ B. $k = \pm 2$ C. $k = -2$ D. $k \neq 0$

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18 A number H is said to be the H.M. between a and b if a, H, b are in

- A. A.P.
- B. G. P.
- C. H. P.
- D. None of these

19 $i^{101} =$

- A. i
- B. i^{2}
- C. -i
- D. -1

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- A. A.P.
- B. G.P.
- C. H.P.
- D. None of these