

NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	The direction cosines of y-axis are	A. 1,0,0 B. 0,1,0 C. 0,0,1 D. 1,1,1
4	Question Image	
5	Which of the vectors have opposite direction?	D. Both A and B
6	Question Image	
7	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. Absolute
8	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these
9	Unit vector in the positive direction of x-axis is	D. All
10	Question Image	A. Free vector B. Null vector C. Unit vector D. None of these
11	The conic is a parabola if	A. $e < 1$ B. $e > 1$ C. $e = 1$ D. $e = 0$
12	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
13	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
14	The equation of the normal to the circle $x^2 + y^2 = 25$ at (4, 3) is	A. $3x - 4y = 0$ B. $3x - 4y = 5$ C. $4x + 3y = 5$ D. $4x + 3y = 25$
15	Question Image	D. None of these