

ECAT Pre General Science Mathematics Chapter 24 Vectors

| Sr | Questions | Answers Choice |
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| 1 | If a, b, c are sides of a triangle taken in order then $a \times b =$ | A. $b \times c$ B. $b \times a$ C. $c \times a$ D. Both a & b |
| 2 | Unit vector in the positive direction of x-axis is | |
| 3 | Question Image <input type="text"/> | |
| 4 | Question Image <input type="text"/> | D. none of these |
| 5 | If the vector $2i + 4j - 7k$ and $2i + 6j + xk$ are perpendicular then $x = ?$ | A. 0 B. 2 C. 4 D. 7 |
| 6 | Question Image <input type="text"/> | D. none of these |
| 7 | Question Image <input type="text"/> | C. 0 D. 1 |
| 8 | The unit vector along z-axis is | D. none of these |
| 9 | Question Image <input type="text"/> | A. 0 B. 1 |
| 10 | Question Image <input type="text"/> | |
| 11 | Question Image <input type="text"/> | D. none of these |
| 12 | The null vector is regarded to be perpendicular to | A. Every vector B. In some cases C. Both a & b D. None |
| 13 | Which of the following is not a unit vector | A. $[1, 1, 1]$ B. $[0, 1, 0]$ C. $[0, 0, 1]$ D. $[1, 0, 0]$ |
| 14 | Question Image <input type="text"/> | D. none of these |
| 15 | Question Image <input type="text"/> | |
| 16 | Question Image <input type="text"/> | D. none of these |
| 17 | Which of the following does not represent absolute value of a vector | A. magnitude B. length C. norm D. number |
| 18 | Which of the following is a vector. | A. energy B. force C. work D. power |
| 19 | Question Image <input type="text"/> | A. $a^{1/2} + a^{2/2}$ B. $a^{2/2} \times a^{1/2} + a^{2/2} \times a^{2/2}$ |
| 20 | Which of the following is a vector. | A. work B. time C. density D. electric field |