

## FA Part 2 Mathematics Chapter 7 Test Online

| Sr | Questions   | Answers Choice   |
|----|---|--|
| 1  | A unit vector is defined as a vector whose magnitude is:                      | A. 0<br>B. 2<br>C. 1<br>D. 4   |
| 2  | Question Image <input type="text"/>   | A. Scalar<br>B. Free vector<br>C. Unit vector<br>D. Null vector  |
| 3  | Question Image <input type="text"/>   | A. 3<br>B. 4<br>C. 5<br>D. 6   |
| 4  | Question Image <input type="text"/>   | A. 60°<br>B. 90°<br>C. 30°<br>D. 45°   |
| 5  | Question Image <input type="text"/>   | A. 90°<br>B. 30°<br>C. 60°<br>D. 0°  |
| 6  | $i \cdot (j \cdot k) =$   | A. Meaningless<br>B. -1<br>C. 1<br>D. 2  |
| 7  | If 2 and 2 are x and y-components of a vector, then its angle with x-axis is: | A. 30°<br>B. 45°<br>C. 60°<br>D. 90°   |
| 8  | Question Image <input type="text"/>   | A. 0<br>B. 1<br>C. -1<br>D. 2  |
| 9  | Question Image <input type="text"/>   |  |
| 10 | Which are the following triples can be direction angles of a single vector:   | A. 45°, 45°, 60°<br>B. 30°, 45°, 60°<br>C. 45°, 60°, 60°<br>D. 30°, 30°, 30°                                     |
| 11 | Question Image <input type="text"/>   | A. Unit vector<br>B. Null vector<br>C. Free vector<br>D. None of these   |
| 12 | A scalar quantity is one that possesses only :                                | A. Magnitude<br>B. Direction<br>C. Both a and b<br>D. None of these  |
| 13 | Question Image <input type="text"/>   | A. Volume of the tetrahedron<br>B. Volume of the parallelepiped<br>C. Volume of the triangle<br>D. None of these |
| 14 | Question Image <input type="text"/>   | A. 0   |
| 15 | Question Image <input type="text"/>   | A. 0<br>B. 2<br>C. 3<br>D. 1   |
| 16 | Question Image <input type="text"/>   | A. Position vector of O<br>B. Position vector of P<br>C. Unit vector<br>D. Null vector                           |

|    |  |  |
|----|--|--|
| 17 | Which of the following is a vector quantity ?                                      | A. Work<br>B. Temperature<br>C. Distance<br>D. Displacement                |
| 18 |  | A. 0<br>B. 2<br>C. 3<br>D. 1   |
| 19 |  | A. $2 - 7$<br>B. $2 + 7$   |
| 20 |  | A. Position vector<br>B. Null vector<br>C. Unit vector<br>D. None of these |