



MARGSHREE CLASSES PVT. LTD.

IIT-JEE / NEET / FOUNDATION (IX & X)

Time: 2 hours

Physics | NEET

Marks: 50

(Test Paper)

NAME OF THE STUDENT:- _____

DATE:- _____

INSTRUCTION – ATTEMPT ALL QUESTIONS

- Q.1. The magnitude of sum of two vector is equal to magnitude of difference of two vector the angle between the vector is.
- (1)0 (2)90 (3)45 (4)180
- Q.2. If $|A+B|=|A|=|B|$ then the angle between A and B is?
- (1)60 (2)0 (3)120 (4)90
- Q.3. Three forces P, Q, R (vector) are acting at a point in the plane . The angle between P and Q, Q and R are 150° and 120° , then for equilibrium forces P,Q,R are in the ratio.
- (1)1:2:3 (2)1:2:(3)^{1/2} (3)3:2:1 (4)(3)^{1/2}:2:1.
- Q.4. If $|A+B|=|A-B|$ find the value of theta?
- (1)90 (2)180 (3)45 (4)60
- Q.5. Two forces each of magnitude F have a resultant of the same magnitude F. The angle between the two forces is.
- (1)45 (2)120 (3)60 (4)150
- Q.6. The angle between P+Q and P×Q?
- (1)0 (2)90 (3)60 (4)45
- Q.7. The angle between $-2i+3j+k$ and $i+2j-4k$ is?
- (1)0 (2)90 (3)180 (4)60
- Q.8. The vector $P= ai+aj+3k$ and $Q= ai-2j-k$ are perpendicular to each other, The value of a is.
- (1)3 (2)2 (3)1 (4)0.

- Q.9. The vector A and B are such that $|A+B|=|A-B|$, The angle between A and B is.
 (1)90 (2)70 (3)60 (4)45
- Q.10. A force $F=(3i+4j)$ act on a body and displaces $s=(3i+4j)$. The work done F.S?
 (1)10J (2)12J (3)19J (4)25J
- Q.11. If a vector $(2i+3j+8k)$ is perpendicular to $(4i-4j+ak)$. Find the value of a.
 (1)-1 (2)-1/2 (3)1/2 (4)1
- Q.12. If $|A \times B|=3^{1/2} A \cdot B$ (vector), then $|A+B|$ is.(write the correct equation)
- Q.13. The direction of angular velocity vector is.
 (1)Tangent of circular path (2)The inward radius (3)the axis of rotation
- Q.14. A truck travelling due north at 20m/s turns west and travels at the same speed . The change in its velocity be.
 (1) 40m/s NW (2) $20\sqrt{2}$ NW (3)40m/s SW (4) $20\sqrt{2}$ m/s SW
- Q.15. The vector of equal magnitude have a resultant equal to either of them in magnitude. The angle between them is.
 (1)60 (2)90 (3)105 (4)120