|Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_||Class: XI | | Paper: Physics | | Time: 60 minutes | |Max. Marks: 25 | |Test # 3|

|NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |F.NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

KQS COACHING CENTER

Q1: Two tugboats are towing a ship, Each exerts a force of 6000 N, and the angle between the two ropes is 50,Calculate the resultant force on the ship.

Q2: A car weighing 10,000 N on a hill which makes an angle of 30 with the horizontal. Find the components of car weight parallel and perpendicular to the road.

Q3: find the projection of the vector = - 2+ onto the direction of vector = 3- 6+ 2.

Q4: Two vectors and are such that || = 3, ||= 4 and = - 5

Find the angle between + ) and - ).

Q5: Prove that Area of parallelogram is equal to cross product.

KQS COACHING CENTER

|Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_||Class: XI | | Paper: Physics | | Time: 60 minutes | |Max. Marks: 25 | |Test # 3|

|NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |F.NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

Q1: Two tugboats are towing a ship, Each exerts a force of 6000 N, and the angle between the two ropes is 50,Calculate the resultant force on the ship.

Q2: A car weighing 10,000 N on a hill which makes an angle of 30 with the horizontal. Find the components of car weight parallel and perpendicular to the road.

Q3: find the projection of the vector = - 2+ onto the direction of vector = 3- 6+ 2.

Q4: Two vectors and are such that || = 3, ||= 4 and = - 5

Find the angle between + ) and - ).

Q5: Prove that Area of parallelogram is equal to cross product.

KQS COACHING CENTER

|Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_||Class: XI | | Paper: Physics | | Time: 60 minutes | |Max. Marks: 25 | |Test # 3|

|NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |F.NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

Q1: Two tugboats are towing a ship, Each exerts a force of 6000 N, and the angle between the two ropes is 50,Calculate the resultant force on the ship.

Q2: A car weighing 10,000 N on a hill which makes an angle of 30 with the horizontal. Find the components of car weight parallel and perpendicular to the road.

Q3: find the projection of the vector = - 2+ onto the direction of vector = 3- 6+ 2.

Q4: Two vectors and are such that || = 3, ||= 4 and = - 5

Find the angle between + ) and - ).

Q5: Prove that Area of parallelogram is equal to cross product.