TALEEMI DUNYA

Test Syllabus: Unit # 2

St. Name		Test	physics	T. Marks	30	Time	60 Min
F. Name		Class	11th	T. Code	U#2	T. Date	

NOTE: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that Question with Marker or Pen ink. Cutting or filling two or more circles will result in zero mark in that question.**6.**

1	Which one is vector quantity?						
(a)	Length	(b)	Volume	(c)	Velocity	(d)	Work
2	The magnitude of A will be						
(a)	Zero	(b)	A2	(c)	1	(d)	A
3	The vector in space bar___components.						
(a)	2	(b)	3	(c)	4	(d)	5
4	Dot product of vector with itself is						
(a)	Zero	(b)	A	(c)	A^2	(d)	A
5	Angle between two vector 30i + 4j and 41i - 3j is						
(a)	30º	(b)	90º	(c)	60º	(d)	45º
6	An area of parallelogram formed A and B by two adjacent						
(a)	AB cos Θ	(b)	ABtan Θ	(c)	-A, -B	(d)	AB sin Θ

Q.2 Write short answers of the following questions. **(8x2=16)**

1. If one of the rectangular components of a vector is not zero can its magnitude be zero? Explain
2. Define the terms.1.unit vector 2. position vector
3. Suppose the sides of a closed polygon represent vector arranged head to tail what are the sum ofthese vectors?
4. If all the components of the vector A, and A_2 were reversed how would this Alter $A_1 \times A_2$? Can you addzero to a null factor?
5. Define a vector?
6. Define a torque?
7. Position vector as a short?
8. Define rectangular coordinate system?

NOTE: Attempt the long questions. **(4+4=8)**

3(a) Two forces of magnitude 10n and 20n act on a body in direction making angle 30 and 60 with x- axis respectively .Find the result of force.

(b) Explain Vector addition by rectangular components.