

PHYS 201 TEST No.1 MEMORANDUM

QUESTION 1

[20 Marks]

1.1 Define the following:

- (i) A particle. (1)

Answer: Anything with a definite position (may have no size).

- (ii) Mechanical equivalence. (1)

Answer: Two bodies are mechanical equivalent if they give the same results in any mechanical experiment, no matter the size or the shape of the two bodies.

- (iii) Inertial frame of reference. (1)

Answer: Frame of reference in which Newton's laws of motion are applicable.

- (iv) Position vector. (1)

Answer: If the point O is fixed, OA is called the position vector of the point A relative to O .

- (v) Free vector. (1)

Answer: If A, B are two points in three dimensional space and C, D are also the other points in that space and:

- (i) the length CD is equal to the length AB
(ii) CD is parallel to AB , then

Such pairs of points are defined as the free vector AB or just A .

- (vi) Negative of a vector. (1)

Answer: The vector with the same magnitude as the original vector but opposite in direction, i.e. $A = -B$.

1.2 Differentiate between rest and motion. (2)

Answer: A particle is at rest when it is at the same position as the frame of reference. A particle is in motion when it does not continue to coincide with the same point of that frame of reference.

1.3 Give two methods used to add two vectors (calculate the resultant vector between two vectors). (2)

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