

WISDOM FOUNTAIN COLLEGE
OGHARA, DELTA STATE OF NIGERIA
FIRST TERM EXAMINATION 2024/2025 ACADEMIC SESSION
SUBJECT: PHYSICS
DURATION: 2 HOURS

SECTION A

(Answer all questions in this section)

1. What does the horizontal component of a vector represent?
(a) Total magnitude of the vector (b) The projection of the vector along the horizontal axis (c) The projection of the vector along the vertical axis (d) The vector itself
2. Which mathematical method is often used to resolve a vector into its components?
(a) Calculus (b) Pythagoras theorem (c) Trigonometry (d) Differential equations
3. Which of the following is NOT a property of a vector?
(a) Magnitude (b) Direction (c) Angle (d) Mass
4. In vector addition, the resultant vector is defined as:
(a) The sum of scalar quantities (b) The vector sum of two or more vectors (c) The difference of magnitudes (d) A perpendicular vector
5. Two forces of magnitude 12 N and 16 N act on a body at 90° to each other. What is the magnitude of the resultant force?
(a) 20 N (b) 25 N (c) 15 N (d) 10 N
6. A car moves with a velocity vector of 80 km/h in a direction 30° north of east. Find the eastward (horizontal) component of the velocity.
(a) 40 km/h (b) 69.28 km/h (c) 80 km/h (d) 20 km/h
7. A vector is resolved into components and . What is the magnitude of the resultant ?
(a) 15 N (b) 20 N (c) 25 N (d) 30 N
8. A body is acted upon by two forces, 30 N and 40 N, at 90° to each other. What is the resultant force?
(a) 50 N (b) 70 N (c) 35 N (d) 45 N
9. The process of resolving a vector into two perpendicular components is called:
(a) Vector addition (b) Vector resolution (c) Vector subtraction (d) Vector multiplication
10. Which of the following represents a correct resolution of a force acting at an angle to the horizontal?
(a) (b) (c) (d)

SECTION B (THEORY QUESTIONS)

(Answer only 4 questions Correctly)

1. (a) In a tabular form, state four differences between:
i. Distance and Displacement
ii. Scalar and Vector
(b) Calculate the Distance between the following pairs of points
i. P(-3, -20, -5) and Q(2, -10, 5)
2. An object is acted upon by two forces 5N and 12N, calculate the result of the forces if:
i. The forces are parallel and act in opposite direction
ii. The forces are parallel and act in the same direction
iii. The forces are perpendicular to each other
iv. The forces act at an angle of 30° to each other
v. The forces act at an angle of 125° to each other
3. (a) A Student walks a distance of 710metre from his home for 12 minutes to a bookshop close to the school to buy a notebook. After buying the book, he walks a further distance of 490metre until he gets to the school 8 minutes later. Find the average speed of the student in the whole journey.
4. A boy walks a distance of 30m in 20 minutes. Calculate his average speed in:
(a) (i) Km/hr (ii) Cm/s (iii) m/s
(b) Define the following: (i) Uniform Speed. (ii) Average speed
5. A wheelbarrow inclined at 30° to the horizontal is pushed with force of 150N.
(i) What is the Vertical component of the applied forces?
(ii) What is the Horizontal component of the applied forces?
(iii) In what direction will the wheelbarrow move and why?

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