

**WISDOM FOUNTAIN COLLEGE
OGHARA, DELTA STATE OF NIGERIA**
FIRST TERM EXAMINATION 2024/2025 ACADEMIC SESSION
SUBJECT: PHYSICS
CLASS: SS2
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 house 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 3km in 20 minutes. Calculate his average speed in:
 - (a) (i) Km/hr (ii) Cm/s (iii) m/s
5. Define the following: (i) Uniform Speed. (ii) Average speed
6. 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?

2015 Ss2 3rd Term Questions

Davide Taibi,Darja Smite

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