

1. (a) (i) Distinguish between scalar and vector quantity. (01 mark)

A scalar quantity is a physical quantity with magnitude but no direction

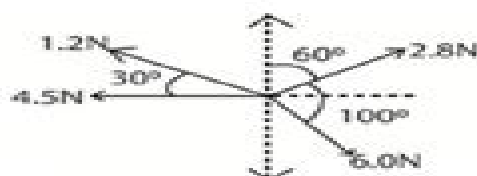
A vector quantity is a physical quantity with both magnitude and direction

- (ii) Give two examples of each type of quantity. (02marks)

Examples of scalar quantities: volume area, distance speed

Examples of vector quantities: force, displacement, impulse, momentum, acceleration

- (b) A body of mass 0.2kg at rest is acted on by four forces of 2.8N, 6.0N, 4.5N and 1.2N as shown in the figure below.



Calculate

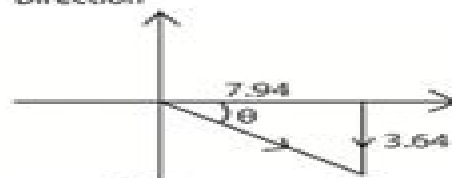
- (i) Resultant force on the body (04marks)

$$F_x = 4.5 + 6\cos 70 + 2.8\cos 30 - 1.2\cos 30 = 7.94\text{N}$$

$$F_y = 0 - 6\sin 70 + 2.8\sin 30 + 1.2\sin 30 = -3.64\text{N}$$

$$\text{Magnitude of the resultant force} = \sqrt{7.94^2 + (-3.64)^2} = 8.73\text{N}$$

Direction



$$\tan \theta = \frac{3.64}{7.94}; \theta = 24.6^\circ$$

The resultant force is 8.73N in a direction 24.60 below the horizontal axis.

- (ii) Distance moved in 4s (02marks)

Using  $F = ma$

$$8.73 = 0.2a$$

$$a = 43.65\text{ms}^{-2}$$

$$s = ut + \frac{1}{2}at^2$$

# Physics Paper 1 Scope Grade 1

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