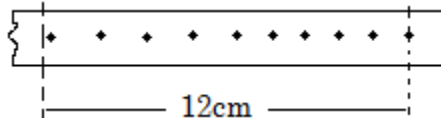


OUR LADY OF GOOG COUNSEL S.S.S. GAYAZA
S3 PHYSICS HOILDAY WORK TERM 1 2020

1. (a) Define velocity (1 mark)

(b) Figure below shows a paper tape pulled at a constant speed through a ticker timer vibrating at a frequency of 40Hz. Calculate the speed of the tape (3marks)



(c) i) Define a lever as applied to simple machines (1 mark)

ii) State any two examples of second class levers (2mks)

(d) Describe an experiment you can carry out to determine the centre of gravity of an irregular object like a lamina (3mks)

2(a)(i) The diagram below shows the sun, moon and earth in a straight line leading to an eclipse. Draw light rays in the diagram to show how an eclipse is formed. (1 mark)



(ii) Name the eclipse. (1 mark)

(b) Define the terms radius of curvature and focal point of a diverging mirror. (2 marks)

c) A real object 3cm high is placed 25cm from a concave mirror of focal length 15 cm. By scale drawing, find the ;

(i) image distance (4 mark)

(ii) Linear magnification (2 marks)