Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic: GCSE Triple Science_Waves (LDQ)

Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

Mark Schemes

Q1.

(a) wavelength = Q

1

(b) $\text{amplitude} = \frac{R}{2}$

1

(c) radio waves

1

(d) s = 300 000 000 × 0.000009

1

s = 2700 (m)

1

(e) satellite communications
or
cooking /heating food
allow WiFi

1

[6]

Q2.

(a) it is harder to judge where the centre of the beam is

1

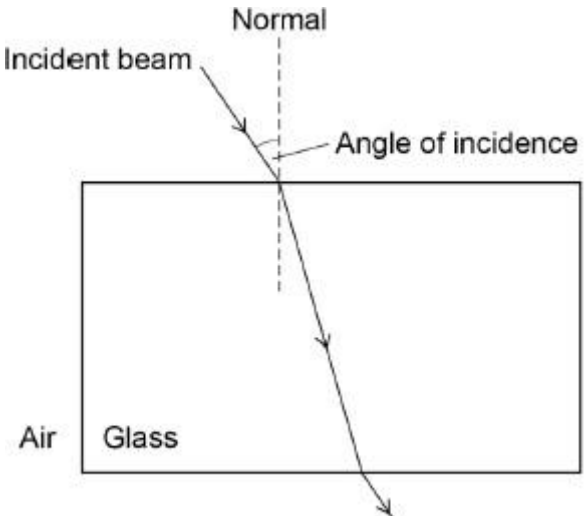
(b) ray shown refracted to the right of the normal as it enters the glass block

1

refraction towards the normal

1

emergent ray parallel to incident ray
*do **not** accept a continuation of the incident ray through the glass block*
ignore arrows



1

(c) 1 degree

1

(d) 33 (°)

1

(e) absorbed

1

(f) wave speed = frequency × wavelength

allow correct re-arrangement

or

$v = f\lambda$

1

(g) $3.0 \times 10^8 = 4.0 \times 10^{14} \times \lambda$

1

$$\lambda = \frac{3.0 \times 10^8}{4.0 \times 10^{14}}$$

1

$\lambda = 7.5 \times 10^{-7}$ (m)

allow 0.000 000 75 (m)

1

[11]