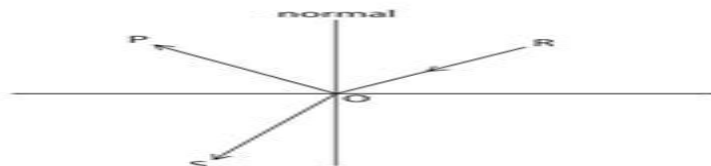


- 3 When light strikes a glass surface it can be both refracted and reflected.
(a) The diagram shows the possible paths for a ray of light which strikes a surface at the point O.



- (i) Which of the lines show the possible path of a ray of light passing from air into glass?

Put a cross (X) in the box next to your answer.

(1)

- ☐ A POS
☐ B POR
☐ C ROP
☐ D ROS

- (ii) The diagram shows a water wave going from deep water into an area of much shallower water. The wave is refracted at the boundary between deep water and shallow water.



Which row of the table is correct for what happens when the wave is refracted?

Put a cross (X) in the box next to your answer.

(1)

	speed	direction
<input type="checkbox"/> A	stays the same	changes
<input type="checkbox"/> B	stays the same	stays the same
<input type="checkbox"/> C	changes	changes
<input type="checkbox"/> D	changes	stays the same

- (b) In 1610 Galileo used a refracting telescope to observe the planet Jupiter.

- (i) Explain how a refracting telescope produces a magnified image of Jupiter.

(3)

- (ii) In 1610, the geocentric model of the Solar System was commonly accepted.

Explain how Galileo's observations contradicted the geocentric model.

(3)

- (c) Light travels the 150 million km from the Sun to the Earth in about 500 s. It takes about 2100 s for light to reach the Earth from Jupiter. Using this information, calculate the approximate distance of Jupiter from the Earth.

(2)

distance of Jupiter from the Earth = _____ million km

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Sabine Zange



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