Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic : 7_ Astronomy

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Name of the Student:_____
Max. Marks : 20 Marks **Time : 20 Minutes**

Q1.

Which row of the table is correct for both force and velocity?

(1)

	force	velocity
☐ **A**	scalar	scalar
☐ **B**	scalar	vector
☐ **C**	vector	scalar
☐ **D**	vector	vector

(Total for question = 1 mark)

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Q2.

Figure 20 shows a satellite orbiting the Earth.

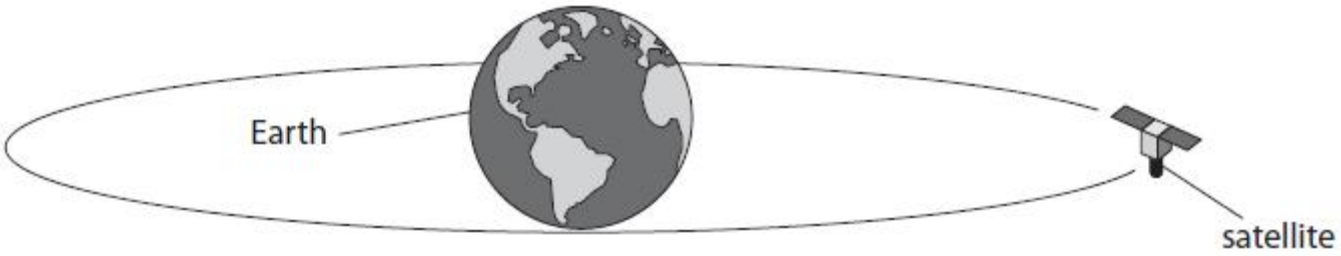


Figure 20

(i) State the name of the force that keeps the satellite in orbit around the Earth.

(1)

.....

(ii) Draw an arrow on Figure 20 to show the direction of the force acting on the satellite, that keeps the satellite in orbit around the Earth.

Label this arrow 'F'.

(1)

(Total for question = 2 marks)

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Q3.

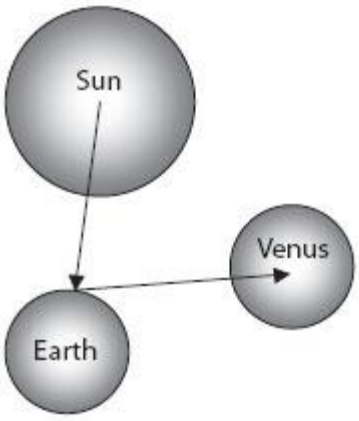
Galileo was one of the first scientists to use a telescope to study Venus.

(i) Which of these diagrams best shows how light waves enable us to see Venus?

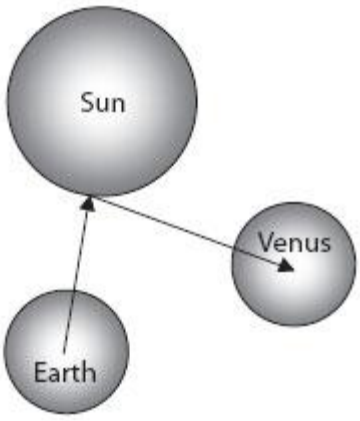
Put a cross (☒) in the box next to your answer.

(1)

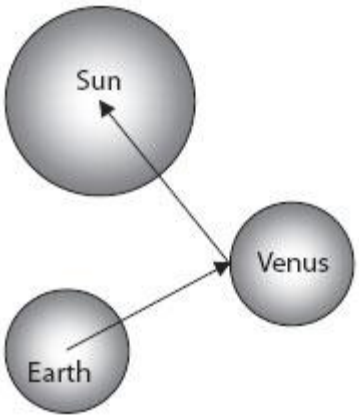
Not to scale



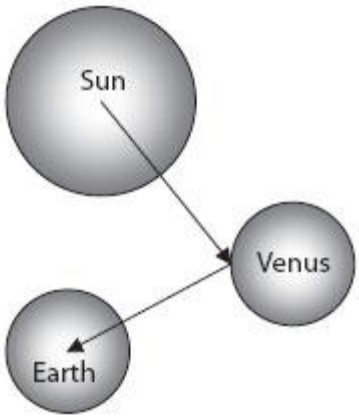
☐ **A**



☐ **B**



☐ **C**



☐ **D**

(ii) Use words from the box to complete the sentences.

(2)

asteroids	comets	geocentric	heliocentric
moons	particle	stars	

Galileo also used his telescope to observe the ..... of Jupiter.

His observations provided evidence to support the ..... model of the Solar System.

(iii) Describe how a reflecting telescope is different from the simple telescope which Galileo used.

(2)

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(Total for question = 5 marks)

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Q4.

When light strikes a glass surface it can be both refracted and reflected.
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)

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

Explain how Galileo's observations contradicted the geocentric model.

(3)

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(Total for question = 6 marks)

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Q5.

* A long time ago, astronomers thought that the Earth was the centre of the Universe.

This was called the geocentric model.
The evidence for this model came from observations of the sky using the naked eye.

After the telescope was invented, astronomers quickly gathered evidence which showed that the geocentric model is not correct.

Describe the evidence both for the geocentric model and against the geocentric model.

(6)

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(Total for question = 6 marks)

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