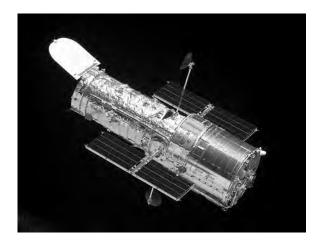
## **Answer ALL questions.**

1 Hubble and Kepler are the names of two space telescopes.





Hubble telescope

Kepler telescope

(a) The Hubble telescope is in a circular orbit around the Earth.

The Kepler telescope is in a circular orbit around the Sun.

The orbit of the Hubble telescope is most like the orbit of a

**(1)** 

- A comet
- **B** moon
- X C planet
- **D** star
- (ii) The orbit of the Kepler telescope is most like the orbit of a

(1)

- A comet
- B moon
- X C planet
- **D** star
- (iii) The force that keeps space telescopes in orbit is

(1)

- A friction
- B gravity
- X C lift
- **D** upthrust

Use words from	n the box to com	plete the sentences	below.		
Each word ma	y be used once, m	nore than once, or r	not at all.		
	Milky Way	Solar System	Sun	Universe	
(i) There are	billions of stars in	n the galaxy called	the		
					(1)
		n the galaxy called			
(ii) There are	billions of galaxi	es in the			(1)
(ii) There are		es in theEarth?			(1)

A kg/N

**D** the centre of the Universe

(d) Gravitational field strength is measured in

lacksquare **B** kg/N<sup>2</sup>

C N/kg

 $\square$  **D** N/kg<sup>2</sup>

(Total for Question 1 = 7 marks)

**(1)**