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# **Motion in the Universe**

## Question paper 3

Level	IGCSE
Subject	Physics
Exam Board	Edexcel IGCSE
Module	Single Award (Paper 2P)
Topic	Astrophysics
Sub-Topic	Motion in the Universe
Booklet	Question paper 3

Time Allowed: 9 minutes

Score: /7

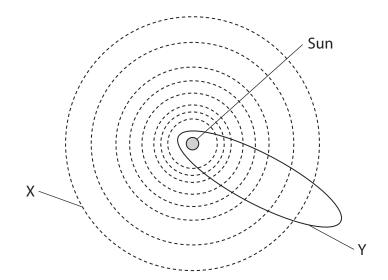
Percentage: /100

#### **Grade Boundaries:**

A*	Α	В	С	D	E	U
>85%	'75%	70%	60%	55%	50%	<50%

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1 The diagram shows the orbits of some objects in the Solar System.



(a) (i) Path X is the orbit of a

(1)

- **A** comet
- B galaxy
- C planet
- **D** star
- (ii) Path Y is the orbit of a

(1)

- **A** comet
- B galaxy
- **C** planet
- **D** star
- (b) The objects are held in orbit by

(1)

- A electrostatic force
- **B** frictional force
- □ C gravitational force
- D magnetic force

(Total for Question 1 = 3 marks)

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which force causes planets and comets to orbit the Sun?  (1)  (1)  (1)  (1)  (2)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (7)  (8)  (9)  (1)  (9)  (1)  (1)  (1)  (1)  (1
[not to scale]
(i) On the diagram, label the planet, the comet and the Sun.
(ii) Explain why it is possible for a planet and a comet in our Solar System to collide.
(Total for Question 2 = 4 marks