

## Chapter 27 Space Exploration

Paper 1

Answer **all** questions. Each question is followed by four options, **A, B, C** and **D**. For each question, choose **one** answer only.

1. What energy source is used by a satellite when it orbits the Earth?
  - A Diesel
  - B Mercury cells
  - C Solar cells
  - D Dry cells
  
2. Which of the following satellites helps us to receive live broadcast from another country through the television?
  - A Meteorological satellite
  - B Communication satellite
  - C Military satellite
  - D Navigational satellite

3.

Each planet has its own orbit.
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Which astronomer introduced this idea?

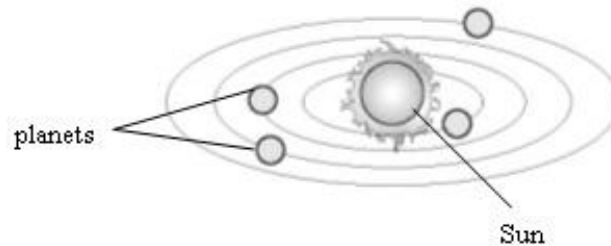
- A Isaac Newton
  - B Johannes Kepler
  - C Galileo Galilei
  - D Nicholas Copernicus
  
4. Which of the following fields benefited from the advancement of satellite technology?
  - I Agriculture
  - II Meteorology
  - III Communication
  - A I and II only
  - B I and III only
  - C II and III only
  - D I, II and III
  
5. Which of the following is the field of study about natural objects in the sky?
  - A Astronomy
  - B Meteorology
  - C Geology
  - D Telecommunication

6. Which of the following are contributions of Galileo Galilei?

- I Discovered planet Pluto
- II First to invent the astronomical telescope
- III First to observe the Moon's surface

- A II only
- B I and III only
- C II and III only
- D I, II and III

7.



The figure above shows a part of an astronomer's view of the Solar System. Who was that astronomer?

- A Aristotle
- B Claudius Ptolemy
- C Nicholas Copernicus
- D Aristarchus

8. Probe is a spaceship that

- A can be used repeatedly
- B does not carry humans
- C launches objects to the outer space
- D enables astronauts to carryout research in outer space

9. Space shuttle is used to

- I carry astronauts
- II launch probes
- III launch satellites

- A I and II only
- B I and III only
- C II and III only
- D I, II and III

10. What is the **disadvantage** of rockets?

- A Cannot be used repeatedly
- B Does not carry humans
- C Cannot carry research equipment
- D Cannot launch objects like probes or satellites

11. There are three Intelsat satellite networks for  
**A** detection of enemies  
**B** local communication in Malaysia  
**C** easy launching of rockets  
**D** telephone communication and live television broadcasts to the whole world
12. The main reason why Malaysia has not yet been actively involved in space exploration is because  
**A** Malaysia lacks manpower  
**B** Malaysia lacks natural resources  
**C** Malaysia lacks technology and expertise  
**D** Malaysia is not a member of the NATO organisation

13.

An object that moves around planet in an orbit.
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Based on the description above, what is the modern technological instrument invented by human?

- A** Telescope  
**B** Spaceship  
**C** Satellite  
**D** Rocket

14.

Astronomer	Contribution
X	Introduced the laws of gravity
Y	Suggested that the Earth is spherical in shape and not flat

The table above shows astronomers and their contributions to astronomy. Who are represented by astronomers X and Y?

- |          | X                   | Y                   |
|----------|---------------------|---------------------|
| <b>A</b> | Isaac Newton        | Aristotle           |
| <b>B</b> | Nicholas Copernicus | Aristarchus         |
| <b>C</b> | Isaac Newton        | Aristarchus         |
| <b>D</b> | Aristotle           | Nicholas Copernicus |

15.

Salyut Skylab
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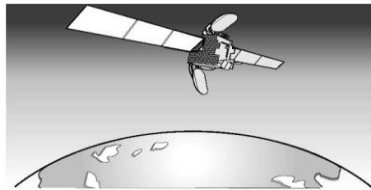
The two names above refer to

- I** space stations  
**II** stations equipped with laboratories, sleeping and eating places, toilets and other facilities

- III** stations for power generators
- A** I and II only
- B** I and III only
- C** II and III only
- D** I, II and III

Paper 2

Answer the question.



The figure above shows a man-made object.

(a) Name the object shown.

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(b) Name the first man-made object launched into space as stated in (a).

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(c) Draw and label in the figure below the location of the object in outer space.



Earth

(d) Name **two** modern technological instruments invented by man that can be used to send the object to the outer space.

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(e) State **three** types of man-made objects and their functions.

Man-made objects	Function
(i)	
(ii)	
(iii)	

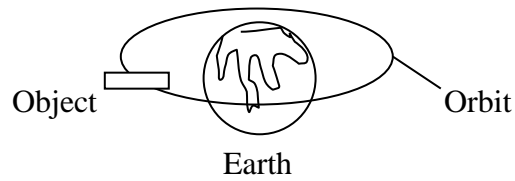
**Answers:**

**Paper 1**

1	<b>C</b>	11	<b>D</b>
2	<b>B</b>	12	<b>C</b>
3	<b>D</b>	13	<b>C</b>
4	<b>D</b>	14	<b>A</b>
5	<b>A</b>	15	<b>A</b>
6	<b>C</b>		
7	<b>C</b>		
8	<b>B</b>		
9	<b>D</b>		
10	<b>A</b>		

**Paper 2**

- (a) Satellite
- (b) Sputnik 1
- (c)



- (d) Rocket and space shuttle
- (e)

<b>Man-made object</b>	<b>Function</b>
(i) Meteorological satellite	Forecasts weather
(ii) Navigational satellite	Helps ships and planes determine their positions
(iii) Communication satellite	Receives radio and television broadcasts