

## PART A: MULTIPLE CHOICE (10 MARKS)

Choose the best response in each case and place your answer in the appropriate space on your answer sheet.

- The force caused by expanding gases leaving a rocket engine is called:  
(a) friction (b) gravity (c) thrust
- Which of the following is not considered "payload"?  
(a) a weather satellite launched into space  
(b) an astronaut who returns to Earth  
(c) cargo launched into space
- Which of the following is not a common use of a satellite?  
(a) travel  
(b) weather forecasting  
(c) military
- Satellites in a geosynchronous orbit are usually located:  
(a) above the South Pole.  
(b) above the equator.  
(c) above the North Pole.
- There are many advantages and disadvantages to orbiting satellites. Which of the following is not a legitimate disadvantage??  
(a) cost  
(b) danger of alien bacteria  
(c) satellite/space station pieces falling to earth
- One of the main duty of astronauts on board the International Space Station will be to:  
(a) retrieve & repair satellites.  
(b) perform experiments on extraterrestrials.  
(c) clean up garbage from past space walks.
- The force of gravity decreases if:  
(a) mass decreases and/or distance increases.  
(b) mass increases and/or distance decreases.  
(c) mass decreases and/or distance decreases.
- The best explanation of why orbiting astronauts appear to be floating is that they are experiencing:  
(a) microgravity  
(b) weightlessness  
(c) continuous free fall
- When the speed of a low earth orbit satellite increases it:  
(a) falls to earth.  
(b) stays where it is.  
(c) flies off into space.
- Side effects of space flight do not include:  
(a) space sickness.  
(b) retention of body fluids.  
(c) decreased cosmic radiation exposure.

## PART B: MATCH (5 MARKS)

Match the definition from the 1<sup>st</sup> column to the best term in the 2<sup>nd</sup> column and place the matching letter in the appropriate space on your answer sheet.

- |   |                   |
|---|-------------------|
| 1. Device that carries a payload into space.                                      | A) aircraft       |
| 2. Everything outside of Earth's atmosphere.                                      | B) microgravity   |
| 3. Orbit around Earth that takes 24 h allowing it to remain in the same location. | C) geosynchronous |
| 4. Satellite, piloted spacecraft, or cargo launched into space.                   | D) GPS            |
| 5. Vehicle designed to travel in the near vacuum of space.                        | E) launcher       |
|   | F) payload        |
|   | G) outer space    |
|   | H) remote sensing |
|   | I) spacecraft     |
|   | J) spinoff        |

## PART A: MULTIPLE CHOICE (10 MARKS)

|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| c | b | a | b | b | a | a | c | c | c  |

## PART B: MATCH (5 MARKS)

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| E | G | C | F | I |