Topic 6 - Above the Atmosphere and Under Control

- The science of rocketry relies on a basic physics principle: For every action -1.
 - A. Forces will remain constant
 - B. There is an equal and opposite reaction
 - C. Distance and speed will be decreased
 - D. There is a reason to overcome gravity
- 2. The three basic parts of a rocket include all of the following, except ...
 - A. fuel
 - B. payload
 - C. nosecone
 - D. structural elements
- 3. Rockets have been around a long time and were originally used as...
 - A. fireworks and weapons
 - B. ceremonial celebrations
 - C. modes of transportation
 - D. fuel for ceremonial fires
- 4. 1926 - Robert Goddard launched the world's first...
 - A. payload rocket
 - B. multiple-stage spacecraft
 - C. orbital achieving spacecraft
 - D. liquid-propellant rocket
- 5. All fuels create exhaust which comes out the end of the rocket. The speed of the exhaust leaving the rocket is called the exhaust velocity, which determines the. ..
 - A. speed of the rocket
 - B. range of the rocket
 - C. direction of the rocket
 - D. altitude of the rocket
- 6. A bomb that is powered by a rocket engine like the V-2 rocket is called a ...
 - A. hydrogen bomber
 - B. atomic reaction
 - C. ballistic missile
 - D. scuba missile
- 7. In the 1960's the Americans and the Russians needed to use computers to calculate and control their spacecraft in orbit. The first computers on the ground ...
 - A. were laptops

 - B. used letters onlyC. were not reliableD. filled large rooms
- 8. A method of acceleration which enables a spacecraft to achieve extra speed by using the gravity of a planet is called ...
 - A. elliptical acceleration
 - B. gravitational assist
 - C. momentum acceleration
 - D. orbital velocity
- Satellites can be natural or artificial the only natrural satellites in this list ... 9
 - A. Moon
 - B. Anik 1
 - C. LANDSAT
 - D. RADARSAT
- The GPS system involves the use of 24 satellites positioned in orbit, allowing for 3 to always be 10.
 - A. at the right angle to deflect the radio signals
 - B. visible at night to ensure visibility in the dark
 - C. above the horizon to be used at any one time
 - D. above or below the lowest object in the sky