- 1. How will the equations of motion for an object moving with a uniform velocity change?
- 2. Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4th and 5th seconds.
- 3 On the earth, a stone is thrown from a height in a direction parallel to the earth's surface while another stone is simultaneously dropped from the same height. Which stone would reach the ground first and why?
- 4. The weight of any person on the moon is about 1/6 times that on the earth. He can lift a mass of 15 kg on the earth. What will be the maximum mass, which can be lifted by the same force applied by the person on the moon?
- 5. Distinguish between mass and weight.
 - 6. An object of mass 2 kg is sliding with a constant velocity of 4 m s-1 on a frictionless horizontal table. The force required to keep the object moving with the same velocity is



- 7. water tanker filled up to 2/3 of its height is moving with a uniform speed. On sudden application of the brake, the water in the tank would
- (a) move backward (b) move forward
- (c) be unaffected

- (d) rise upwards
- **8.** The value of acceleration due to gravity
- (a) is same on equator and poles
 - (b) is least on poles

(c) is least on equator

to equator

(d) increases from pole