

Signature:

Name:

Marks:

## Orbital Speed

**Q1.**

What is the difference between orbital speed and orbital period?

**Q2.**

How does the orbital speed of a planet depend on its distance from the Sun?

**Q3.**

What is the formula for calculating the average orbital speed of an object?

**Q4.**

What is the height above the surface of an object that orbits the Earth at an orbital radius of 9000 km, given that the radius of the Earth is 6400 km?

Signature: Name: Marks: **Q5.**

What is the orbital period of an object that orbits the Sun at an average speed of 20 km/s, given that the average radius of its orbit is 150 million km?

**Q6.**

What is the orbital period of an object that orbits the Sun at an average speed of 20 km/s, given that the average radius of its orbit is 150 million km?