

TEST Version 1

TOTAL: /40

**Multiple Choices (2 points each; 20 points total):** Please choose the best answer for each of the following questions.

- If both the radius and mass of a planet were to double, the magnitude of the gravitational field strength at its surface would become
  - Halved
  - Unchanged
  - Doubled
  - Depends on the mass of the object on the surface
  - Four times as much
- If the mass of the Sun were to become half its current value, with Earth maintaining its same orbit, the time interval of one Earth year would
  - Remain the same
  - Decrease by a factor of  $\sqrt{2}$
  - Increase by a factor of  $\sqrt{2}$
  - Increase by a factor of 2
  - Decrease by a factor of 2
- A satellite in geosynchronous orbit has a period of revolution of
  - 1.5 h
  - 1.0 h
  - 24 h
  - 365.26 d
  - None of these
- Satellite  $S_1$  is moving around Earth in a circular orbit of radius four times as large as the radius of the orbit of satellite  $S_2$ . The speed of  $S_1$ ,  $v_1$  in terms of  $v_2$  equals
  - $16v_2$
  - $v_2$
  - $2v_2$
  - $0.5v_2$
  - None of these
- The magnitude of the magnetic field 20cm from a straight wire with a current of 12A is
  - $1.8 \times 10^{-5}$
  - $2.4 \times 10^{-6}$
  - $1.8 \times 10^{-7}$
  - $1.2 \times 10^{-6}$
  - $1.2 \times 10^{-5}$
  - None of these
- A 1nC positive point charge is located at point A. The electric potential at point B is

# Chapter 4 Chemistry Test

**R Pring**



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