

SSUUGCET
BSC OSTEOPATHY / BSC EXERCISE AND SPORTS PHYSIOLOGY
SAMPLE QUESTIONS

Section A (Physics)

1. In which temperature the density of water is maximum?
 - a. 100°C
 - b. 0°C
 - c. 4°C
 - d. 273°C
2. Loudness of sound depends upon ----- of the sound wave.
 - a. Frequency
 - b. Wavelength
 - c. Pitch
 - d. Amplitude
3. Which method can be applied to determine purity of a metal?
 - a. Boyle's Law
 - b. Pascal's Law
 - c. Archimedes Principle
 - d. Newton's Law
4. Curie temperature is the temperature above which
 - a. a ferromagnetic material becomes paramagnetic.
 - b. a ferromagnetic material becomes diamagnetic.
 - c. a paramagnetic material becomes diamagnetic.
 - d. a paramagnetic material becomes ferromagnetic.

Section B (Chemistry)

1. The intermolecular forces of attraction between methane molecules is
 - a) dipole-dipole interaction
 - b) Ion- dipole interaction
 - c) Dipole-Induced dipole interaction
 - d) Dispersion forces
2. Atomicity of ammonium phosphate molecule is
 - a) 5
 - b) 10
 - c) 15
 - d) 20
3. The orbital with $n=3$, and $l=2$ is,
 - a) 3s

- b)3p
- c)3d
- d)3f

4. Which of the following pair of atomic number presents s-block elements?

- a)7,15
- b)3,12
- c)6,12
- d)9,17

Section C (Biology)

1) Double fertilization is exhibited by

- a) Gymnosperm.
- b) Algae.
- c) Fungi
- d) Angiosperm

2) Which of the following are found in extreme saline condition.

- a) Archaeobacterial.
- b) Eubacteria.
- c) Cyanobacteria.
- d) Mycobacteria.

3) Select the mismatch.

- | | |
|-------------------|-----------------|
| a) Frankia | Alnus |
| b) Rhodospirillum | Mycorrhiz |
| c) Anabaena | Nitrogen fixer. |
| d) Rhizobium | Alfalfa. |

5) What is the criterion for DNA fragment movement on agarose gel during gel electrophoresis?

- a) The larger the fragment size, the farther it moves.
- b) The smaller the fragments size, the farther it moves.
- c) positive charged fragments move to farther end.
- d) Negatively charged fragments do not move.

Answer Keys:

Physics

- 1. c
- 2. d
- 3. c
- 4. a

Chemistry

- 1. D
- 2. D
- 3. C

4. B

BIOLOGY

1 -----D,

2-----A,

3-----B,

4-----D