

**SSUPGCET**  
**MSC OSTEOPATHY / MSC EXERCISE AND SPORTS PHYSIOLOGY**  
**SAMPLE QUESTIONS**

**PHYSIOLOGY**

1-Which one of these is a Physiological factor that affects the Total Body Weight:

- A- Vomiting.
- B- Climate.
- C- Diarrhea.
- D- Diabetes.

2-Which one is the major anion in Extracellular fluid:

- A- Sodium.
- B- Chloride
- C- Potassium.
- D- Phosphate.

3- Synovial fluid is one of :

- A. Intracellular fluid.
- B. Extracellular fluid.
- C. Interstitial fluid.
- D. Transcellular fluid Compartment.

4-which of the following is not a feature of peripheral proteins :

- A. Hormone receptors
- B. Structural channels
- C. Present on one side
- D. Cell surface antigens

5-A non -carrier mediated transport down the concentration gradient :

- A. Facilitated diffusion
- B. Simple diffusion
- C. Active transport
- D. Osmosis

**Anatomy**

1) A muscle which flexes both hip and knee joints is-

- A. gluteus maximus
- B. biceps femoris
- C. rectus femoris
- D. sartorius

2) Which of the following structures is likely to get damaged when the semiflexed knee is suddenly rotated medially

- A. anterior cruciate ligament
- B. lateral meniscus
- C. medial meniscus
- D. posterior cruciate ligament

3) Trendelenberg's test is positive in following conditions EXCEPT;

- A. dislocation of hip
- B. fracture neck femur
- C. paralysis of gluteus medius
- D. paralysis of gluteus maximus

4) Gyrus occupying Broca's speech area is

- A. superior frontal
- B. middle frontal
- C. inferior frontal
- D. superior temporal

5) In midbrain following structures are found at the level of oculomotor nerve nucleus

- A. red nucleus
- B. pretectal nucleus
- C. substantia nigra
- D. decussation of superior cerebellar peduncle