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Total No. of Pages: 02

Total No. of Questions: 11

**Master of Science (Chemistry)(Sem. – 1)**

**HUMAN PHYSIOLOGY**

**Subject Code: CHL406A-18**

**M Code: 75118**

**Date of Examination : 21-01-23**

**Time: 3 Hrs.**

**Max. Marks: 50**

**INSTRUCTIONS TO CANDIDATES:**

1. **SECTION-A** is **COMPULSORY** consisting of **FIVE** questions carrying **TWO** marks each.
2. **SECTION-B** contains **EIGHT** questions carrying **FOUR** marks each and students have to attempt any **SIX** questions.
3. **SECTION-C** is **COMPULSORY** consisting of **TWO** questions with internal choice carrying **EIGHT** marks each.

**SECTION-A**

1. Write briefly:
  - a) What is glomerular filtration rate?
  - b) What is vital capacity?
  - c) What is the role of bile in fat absorption?
  - d) Differentiate cartilage and tendon.
  - e) What are the hormones released from adrenal gland?

**SECTION-B**

2. Explain the molecular mechanism of skeletal muscle contraction.
3. What is difference between mitosis and meiosis?
4. Explain the digestion of proteins.
5. What are the secretions of small intestine?

6. Differentiate systemic and pulmonary circulation.
7. Explain the process of gas exchange in lungs.
8. Explain the steps involved in urine formation.
9. Write the functions of insulin.

### **SECTION-C**

10. Elaborate the name and functions of hormones released from anterior pituitary.

**OR**

Explain the structure of heart with labeled diagram.

11. Write the functions of different vitamins and write the diseases arising due to their deficiency.

**OR**

Explain the structure of plasma membrane with diagram.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**