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1(SEM-1) BVMHS1

2023

**MEDICAL LABORATORY TECHNICIAN /
MEDICAL LAB AND MOLECULAR
DIAGNOSTIC TECHNOLOGY**

Paper: MHS0100104

(Human Anatomy & Physiology)

Full Marks: 45

Pass Marks:

Time: Two hours

**The figures in the margin indicate full marks
for the questions.**

1. Fill in the blanks : 1x5=5
- a) Tubular secretion of ion is important in maintaining normal blood pH.
 - b) is the inherent properties of smooth muscle.
 - c) Connective tissue is highly vascular but the exception is

- d) gland is regarded as both endocrine and exocrine glands.
- e) is a hormone that helps to mineralize bones.

2. Answer **any five** from the following questions: 2x5=10

- a) Define Anatomical Position.
- b) Why mitochondria is regarded as powerhouse of the cell?
- c) Compare arteries and veins.
- d) Name two female sex hormone.
- e) How CSF is formed?
- f) Mention any two functions of uterus.
- g) List out the bones of vertebral column.
- h) Which part of the respiratory system is known as voice box and why?
- i) What do you mean by spinal reflex?
- j) What are the functions of lymph nodes?

Answer **any four** of the following: $5 \times 4 = 20$

- a) Write a note on cell cycle and its regulation.
- b) Draw a labelled diagram of compact bone.
- c) Explain about menstrual cycle.
- d) What do you mean by internal and external respiration? Explain.
- e) Name the hormones secreted by anterior pituitary along with its functions.
- f) Classify epithelial tissue and mention its functions.
- g) Write a note on synovial joints.
- h) Name salivary glands and mention various functions of salivary glands

4. Answer **any one** of the following questions: $10 \times 1 = 10$

- a) Draw a labelled diagram of kidney. Write down various functions of kidney. Explain in details about formation of urine.
(3+3+4=10)

b) Write briefly about blood supply to the heart muscle. Describe in details about systemic and pulmonary circulation.

(2+4+4=10)

c) List out the four common layers of GI tract. Explain in details about the physiology of digestion. (2+8=10)

d) What are the different parts of brain and enumerate their functions? Explain in details about 12 cranial nerves. (5+5=10)