2023

MEDICAL LAB AND MOLECULAR DIAGNOSTIC TECHNOLOGY/MEDICAL LABORATORY TECHNICIAN

QP : Phlebotomy Technician

Paper : MDT–VC–1016/MLT–VC–1016

(Basic Anatomy & Physiology)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Fill in the blanks : 1×7=7

   (a) _____ is the only connective tissue without blood vessels.

   (b) _____ hormone maintains the water balance of the body.

   (c) An immovable joint that forms between the bones of skull is known as _____.

   (d) Sternum is _____ to the lungs.

   (e) Gastric HCL is secreted by _____ cells.

   (f) _____ is a male sex hormone.

   (g) _____ is the largest part of the brain.

2. Answer the following :

(a) What are the functions of uterus?

(b) Name some hormones from posterior pituitary gland.

(c) What is the common structure of the alimentary cannel?

(d) What do you mean by medial and lateral? Give example.

3. Answer any *three* of the following questions :

5×3=15

(a) Explain briefly about systemic and pulmonary circulation.

(b) Write a note on spermatogenesis.

(c) Write about physiology of digestion.

(d) Write down the functions of kidney.

(e) Explain briefly about different parts of brain.

4. Answer the following questions :   10×3=30

(a) Mention various functions of liver. Explain pancreas as exocrine as well as endocrine glands.

5+5=10

Or

What are the two anatomically separate systems of blood circulation? Describe in detail.   2+4+4=10

(b) Classify connective tissue. Name different components of connective tissue. Explain different cells and protein fibres present in various connective tissue.   5+2+3=10

Or

Draw a labelled diagram of respiratory system. Explain briefly about internal and external respiration.   4+6=10

(c) Classify bones along with examples. Explain briefly about various joints. Describe about synovial fluid.   4+4+2=10

Or

What do you mean by autonomic nervous system? Describe in detail about sympathetic and parasympathetic nervous system.   2+4+4=10

★ ★ ★