

Prof. Rev

BV (1)/ML & MDT-1.1/16 (MC)

**B.Voc First Semester (Medical Laboratory
and Molecular Diagnostic Technology)
Exam., 2016**

MEDICAL LABORATORY TECHNICIAN

Paper : S-1.1

(Fundamentals of Anatomy and Physiology)

Full Marks : 40

Time : 2 hours

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

1. Fill in the blanks :

1×5=5

- (a) _____ is the basic structural and functional unit of kidney.
- (b) The smallest unit of life in our body is _____.
- (c) Cell theory was proposed by _____.
- 4 (d) _____ is the largest cell found in blood.
- (e) Nerve tissue is made up of cells known as _____.

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(Turn Over)

2. Answer any *five* of the following questions :

2×5=10

- (a) Mention any two functions of smooth muscle tissue.
 - (b) What is the longest bone in human body? What are the chemical constituents of bone?
 - (c) What are the functions of myelin sheath in nerve fibers?
 - (d) Define cell differentiation.
 - (e) Write the role of cardiac muscles in heart beat.
 - (f) Mention two functions of connective tissue.
 - (g) Mention the functions of platelets.
3. Write short notes on any *three* of the following :
5×3=15
- (a) Fluid mosaic model of membrane structure
 - (b) Urine formation in human body
 - (c) Epithelial tissue
 - (d) Functions of male reproductive system
 - (e) Endocrine glands

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(Continued)

4. Answer any *one* of the following questions : 10

- (a) Briefly describe the functional anatomy of cardiovascular system.
- (b) What are the compositions of blood? Write a note on the structure and function of leucocytes.
- (c) Describe the human digestive system with labelled diagram.

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