

**M. SC. (MEDICAL BIOTECHNOLOGY) SEM-I (CHOICE
BASED CREDIT SYSTEM) : WINTER - 2017
SUBJECT: HUMAN PHYSIOLOGY**

Day: **Monday**
Date: **06/11/2017**

W-2017-1047

Time: **02.00 PM TO 05.00 PM**
Max. Marks: **60**

N.B.:

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.**
- 2) Attempt **ANY TWO** remaining questions from Section-I and Section-II each.
- 3) Answers to both the sections should be written in the **SEPARATE** answer book.
- 4) Figures to the right indicate **FULL** marks.

SECTION-I

- Q.1** Answer Any **FIVE** of the following questions in brief: **[10]**
- a) State any four functions of the cerebellum.
 - b) State composition and functions of surfactant.
 - c) Enlist functions of platelets.
 - d) Draw a labeled diagram of the neuromuscular junction
 - e) State the functions of the cell membrane.
 - f) Enumerate functions of the liver.
- Q.2** Answer the following questions: **[10]**
- a) Enlist five types of muscle disorders.
 - b) Write a note on types of glial cells of CNS and PNS.
- Q.3** Explain the following: **[10]**
- a) Describe COPDs.
 - b) Compare and contrast sympathetic nervous system and parasympathetic nervous system.
- Q.4** Write short notes on ANY **TWO** of the following: **[10]**
- a) Describe changes taking place in the female body during pregnancy.
 - b) Draw a labeled diagram of gastric pits and write functions of gastric juice.
 - c) Excitation-contraction coupling.

SECTION-II

- Q.5** Answer the following: **[10]**
- a) Describe the functions of protein in the diet.
 - b) Define GFR and write the factors affecting GFR.
- Q.6** Answer ANY **TWO** of the following: **[10]**
- a) Thyroid function tests
 - b) Balanced diet
 - c) Iron deficiency anemia
- Q.7** Write short notes on the following: **[10]**
- a) Describe different types of anticoagulants used in blood collection.
 - b) Write a note on mechanism of action of protein hormones.
- Q.8** Answer ANY **ONE** of the following: **[10]**
- a) Enlist water soluble vitamins and add a note on their deficiency disorders.
 - b) Lipid profile tests.

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