

M. Sc. (Medical Biotechnology) Sem- II (CBCS 2018 Course) :

SUMMER - 2019

SUBJECT: HUMAN PHYSIOLOGY

Day: Saturday

Date: 20/04/2019

Time: 02.00 PM TO 05.00 PM

Max. Marks: 60

S-2019-1433

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Answers to both the sections should be written in **SAME** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION-I

Q.1 Attempt **ANY FIVE** of the following: **(10)**

- a) Enlist different body systems mention the components and functions of skeletal system.
- b) What is BMR? Mention the factors which influence the BMR.
- c) What is hematocrit? Mention the normal range of it in adult male and female.
- d) What are pleural cavities? Mention their structure and functions.
- e) What are the structures and functions of eye ball?
- f) What are the functions of cerebral hemisphere of the brain?

Q.2 Attempt **ANY TWO** of the following: **(10)**

- a) Give a complete account of Absorption in GIT.
- b) What are the functions of formed elements of blood?
- c) Describe the mechanisms of hemostasis.

Q.3 Write short notes on (**ANY TWO**): **(10)**

- a) Classification and functions of nervous system
- b) Physiology of hearing
- c) Structure and functions of respiratory tract

SECTION-II

Q.4 Attempt **ANY FIVE** of the following: **(10)**

- a) What is the functions of ADH in urine production?
- b) Mention the functions of electrolytes in the body?
- c) What is hypothalamic thermostat?
- d) Define the term "hormones". Mention their chemical classification.
- e) What is spermatogenesis? Mention the structure of sperm.
- f) What is balanced diet? Mention the structure of sperm.

Q.5 Attempt **ANY TWO** of the following: **(10)**

- a) What are wastes? How do the kidneys participate in their removal from the body?
- b) What are functions of K^+ in the body fluids? How it is regulated?
- c) What are the mechanisms of heat production and heat transfer in the body?

Q.6 Write short notes on (**ANY TWO**): **(10)**

- a) Thyroid gland
- b) Stages of Amnion development
- c) Female reproductive system

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