

I - B.H.M.S. (2015 Course) : SUMMER - 2019

SUBJECT : PHYSIOLOGY – I

Day : Friday
Date : 19/07/2019

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 100

S-2019-4277

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Answers written in inappropriate sections will not be assessed.

SECTION – I

- Q.1** Answer in one or two sentences (**ANY FIVE**): **[10]**
- a) Enlist blood group systems.
 - b) Define arteriosclerosis.
 - c) Enlist respiratory centers.
 - d) What is cardiac reserve?
 - e) What is normal red blood cell count?
 - f) Enumerate two functions of lymph.
- Q.2** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Surfactant
 - b) Coronary circulation
 - c) Erythroblastosis foetalis
 - d) Lymph node
 - e) Acclimatization
- Q.3** Answer **ANY TWO** of the following: **[20]**
- a) Define cardiac output and explain factors affecting it.
 - b) Give composition of blood and describe functions of blood.
 - c) Describe mechanism of respiration in detail.

SECTION – II

- Q.4** Answer in one or two sentences (**ANY FIVE**): **[10]**
- a) Define Osmosis.
 - b) What is nephron?
 - c) Define fever.
 - d) Enlist contractile proteins in skeletal muscles.
 - e) State Laplace's Law.
 - f) Define Homeostasis.
- Q.5** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Lysosome
 - b) Fatigue
 - c) Micturition reflex
 - d) Action potential
 - e) Functions of skin
- Q.6** Answer **ANY TWO** of the following: **[20]**
- a) Describe heat loss and heat gain mechanism of body.
 - b) With neat labeled diagram describe structure and transmission of impulse across neuro-muscular junction.
 - c) With neat labeled diagram describe structure and functions of cell membrane.

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