

I - B.H.M.S. (2015 COURSE) : WINTER - 2017
SUBJECT : PHYSIOLOGY – I

Day : **Monday**
Date : **13/11/2017**

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

W-2017-3699

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** Answer in one or two sentences (**ANY FIVE**): **[10]**
- a) Define Anemia.
 - b) Write the Normal Platelet count.
 - c) Define Hypoxia.
 - d) What is Normal P – R interval?
 - e) Define Cardiac output.
 - f) Enumerate any two vasoconstrictors and two vasodilators.
- Q.2** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Differentiate between first and second heart sound
 - b) Lymph node – structure and functions
 - c) Baro-receptors
 - d) Platelet
 - e) Vital Capacity
- Q.3** Solve **ANY TWO** of the following: **[20]**
- a) Describe the Cardiac cycle in detail.
 - b) With neat labeled diagram describe Erythropoiesis.
 - c) Describe in detail transport of carbon dioxide.

SECTION – II

- Q.4** Answer in one or two sentences (**ANY FIVE**): **[10]**
- a) Number of chromosomes present in human cell.
 - b) What is ultra-filtration?
 - c) Name the important metabolic waste products excreted by kidney.
 - d) What is Pyrexia?
 - e) Define Osmosis.
 - f) Functions of Endoplasmic Reticulum.
- Q.5** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Juxta – Glomerular apparatus
 - b) Dialysis
 - c) Lysosomes
 - d) Neuro-muscular junction
 - e) Thermolysis
- Q.6** Solve **ANY TWO** of the following: **[20]**
- a) Describe at least 5 properties of skeletal muscle.
 - b) Describe micturition reflex in detail.
 - c) Describe the structure and functions of skin.

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