

**I - B.H.M.S. (2015 Course) : WINTER - 2018**  
**SUBJECT : PHYSIOLOGY – I**

Day : Monday  
Date : 15/10/2018

**W-2018-3980**

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

**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) Define Diastolic Blood Pressure.
  - b) What is Normal stroke volume?
  - c) What is Normal Respiratory Rate in adults?
  - d) What is Normal Residual Volume in adults?
  - e) Name one chromoprotein.
  - f) What is normal bleeding time and clotting time?
- Q.2** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Acclimatization
  - b) Hemoglobin
  - c) Function of plasma proteins
  - d) Radial pulse
  - e) Valves of heart
- Q.3** Answer **ANY TWO** of the following: **[20]**
- a) With neat labeled diagram describe the leucocytes.
  - b) With a neat labeled diagram describe the transport of respiratory gases in detail.
  - c) Describe the five properties of cardiac muscles.

**SECTION – II**

- Q.4** Answer in one or two sentences (**ANY FIVE**): **[10]**
- a) What is oliguria?
  - b) What is muscle twitch?
  - c) Parts of nephron.
  - d) Define hypothermia.
  - e) Substances that cross the cell membrane by facilitated diffusion.
  - f) What is colloidal osmotic pressure?
- Q.5** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Normal constituents of urine
  - b) Fatigue
  - c) Dialysis
  - d) Active transport
  - e) Distal convoluted tubule
- Q.6** Answer **ANY TWO** of the following: **[20]**
- a) Describe the structure and function of the sarcomere.
  - b) Describe the abnormal constituents of urine.
  - c) Describe the Heat gain mechanism of human body.

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