

**BACHELOR OF HOMOEOPATHIC MEDICINE & SURGERY (2015 COURSE)**

**First B.H.M.S. : WINTER :- 2021**

**SUBJECT: PHYSIOLOGY PAPER-I**

**Day : Monday**  
**Date 31-01-2022**

**W-14271-1-2021**

**Time : 10:00 AM-01:00 PM**  
**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 book.

**SECTION – I**

- Q.1** Answer in one or two sentences: **(ANY FIVE)** **[10]**
- a) Enumerate the types of Hypoxia.
  - b) Name the chromoprotein present in RBC.
  - c) What is Haemophilia?
  - d) Give functions of lymph.
  - e) Define Anemia.
  - f) Write normal value of WBC count.
- Q.2** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Functions of spleen
  - b) Functions of plasma protein
  - c) RNA
  - d) Factors affecting heart rate
  - e) Acclimatization
- Q.3** Solve **ANY TWO** of the following: **[20]**
- a) Describe the short term regulation of blood pressure.
  - b) With neat labeled diagram describe the lung volumes and capacities in detail.
  - c) Define and classify Anemia in detail with applied physiology.

**SECTION – II**

- Q.4** Answer in one or two sentences: **(ANY FIVE)** **[10]**
- a) What is dialysis?
  - b) ESR.
  - c) Urea Clearance Test.
  - d) What are the types of Nephron?
  - e) Define Osmosis.
  - f) Define Pyrexia and Hyperpyrexia.
- Q.5** Write short notes on **ANY FOUR** of the following: **[20]**
- a) Immunity
  - b) Myasthenia gravis
  - c) Mitochondria
  - d) Glycosuria
  - e) Structure of nephron
- Q.6** Solve **ANY TWO** of the following: **[20]**
- a) Describe structure and functions of skin.
  - b) Define Homeostasis. Write positive feedback mechanism.
  - c) Define action potential with diagram and give different events during action potential of skeletal muscle.

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