

**PARUL UNIVERSITY**  
**FACULTY OF HOMOEOPATHY**  
**BHMS, Examination October 2018**

Year:1

Subject Code: 04101103

Subject Name: Physiology -Paper-I

Date: 24/10/2018

Time: 2.00 pm to 5.00 pm

Total Marks: 100

**Instructions:**

1. Attempt all questions from each section
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section-A, section-B on separate answer sheets.
5. Draw diagrams wherever necessary.

**SECTION: A**

**Q.1** Describe different systems of blood grouping. **(15)**

**OR**

**Q.1** Define cardiac cycle and describe the different events occurring in cardiac cycle **(15)**

**Q.2** Define tissue fluid and describe in detail formation of tissue fluid **(15)**

**OR**

**Q.2 (a)** Describe in detail functions of reticulo-endothelial system **(08)**

**Q.2 (b)** Describe nervous regulation of blood pressure **(07)**

**Q.3 Write Short notes (3 out of Five)** **(15)**

- |                           |                        |              |
|---------------------------|------------------------|--------------|
| a) Functions of platelets | b) Functions of spleen |              |
| b) mitosis                | d) osmosis             | e) pacemaker |

**Q.4 Write Answer** **(05)**

- a) Define PCV and its normal value
- b) Write four clotting factors dependant on vit K
- c) what is p wave and its duration
- d) What are lysosomes?
- e) What is a sol and gel?

**SECTION: B**

**Q.1** Describe in detail exchange of gases **(15)**

**OR**

**Q.1** Describe in detail formation of urine **(15)**

**Q.2** Describe hypoxia in detail **(15)**

**OR**

**Q.2 (a)** Chemical regulation of respiration **(08)**

**Q.2 (b)** Glomerular filtration **(07)**

**Q.3 Write Short notes (3 out of Five)** **(15)**

- |                        |                       |                      |
|------------------------|-----------------------|----------------------|
| a) surfactant          | b) Lung compliance    |                      |
| c) Simple muscle curve | d) Micturition reflex | e) Functions of skin |

**Q.4 Write Answer** **(05)**

1. What is respiratory membrane
2. Define vital capacity and its normal value
3. What are the parts of renal tubule
4. What are the centres for temperature regulation
5. What is latent period and its duration