

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF HOMOEOPATHY
BHMS Examination 2015 - 16

Year: I

Subject Code: 04101103

Subject Name: Physiology & Biochemistry Paper I

Date: 06/08/2016

Time: 10:00 am to 1:00 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 separate sections on separate answer sheets.

SECTION - A

- Q.1** Define blood clot. Describe in detail the mechanism of clotting of blood. [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** Write the following short notes.
- a) Describe in detail functions of reticulo-endothelial system. [08]
 - b) Define cardiac output and describe in detail about cardiac output. [07]
- Q.3** Write Short notes on following. (any three) [15]
- a) Functions of WBCs
 - b) Functions of spleen
 - c) Mitosis
 - d) Diffusion
 - e) Nervous regulation of arterial blood pressure
- Q.4** Answer the following questions. [05]
- a) Define ESR and its normal value.
 - b) Write four clotting factors dependant on vit K.
 - c) What is the cause of first and second heart sounds?
 - d) What are lysosomes?
 - e) What is a colloid ?

SECTION - B

- Q.1** Describe in detail nervous regulation of respiration. [15]
- OR**
- Q.1** Describe in detail formation of urine. [15]
- Q.2** Describe Oxygen transport in detail. [15]
- OR**
- Q.2** Write the following short notes.
- a) Hypoxia [08]
 - b) Glomerular filtration [07]
- Q.3** Write Short notes on following. (any three) [15]
- a) Acclimatization
 - b) Lung compliance
 - c) Rigor mortis
 - d) Micturition reflex
 - e) Functions of skin
- Q.4** Answer the following questions. [05]
- a) What is respiratory membrane?
 - b) Define vital capacity and its normal value.
 - c) What is the action of ADH on renal tubule?
 - d) What are the centers for temperature regulation?
 - e) What are the parts of simple muscle curve and their duration?