

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF HOMOEOPATHY
BHMS September – 2019 Examination

Year: 1

Date: 18/09/2019

Subject Code: 04101103

Time: 02:00pm to 05:00pm

Subject Name: Physiology Paper - 1

Total Marks: 100

Instructions:

1. Attempt all questions from each section
2. Figures to the right indicate full.
3. Make suitable assumptions wherever necessary.
4. Write separate sections on separate answer sheets.

SECTION: A

- Q:1** Describe in detail the synthesis, functions and fate of Haemoglobin. **(15)**
OR
Describe cardiac cycle in detail **(15)**
- Q:2** Define blood pressure. Explain in detail regulation of blood pressure. **(15)**
OR
A) Describe the structure and function of spleen in brief. **(08)**
B) Describe in brief about cardiac output **(07)**
- Q:3** **Write Short notes (3 out of Five)** **(15)**
1) Rh factor 2) Plasma proteins 3) Surface tension
4) Apex beat 5) Mitosis
- Q:4** **Write Answer** **(05)**
1) Define Osmosis
2) Define All or none law.
3) What is normal platelet count?
4) Enumerate different types of WBC.
5) What is a colloid?

SECTION: B

- Q:1** Describe the structure of respiratory membrane. Describe process of exchange of gases through it. **(15)**
OR
Define GFR. Describe in detail various factors affecting it. **(15)**
- Q:2** Describe structure and function of nephron in detail. **(15)**
OR
A) Describe in brief pulmonary circulation **(08)**
B) Describe juxta glomerular apparatus in brief. **(07)**
- Q:3** **Write Short notes (3 out of Five)** **(15)**
1) Surfactant 2) Hypoxia 3) Micturition
4) Hypothermia 5) Fatigue
- Q:4** **Write Answer** **(05)**
1) Define vital capacity
2) What is Bohr's effect?
3) Which hormones are secreted by kidney?
4) What is action potential?
5) Enumerate functions of skin.