

Seat No. \_\_\_\_\_

Enrollment No. \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF HOMOEOPATHY**  
**BHMS - November, 2019 Exam**

**Year: 1**  
**Subject code: 4101103**  
**Subject: Physiology & Biochemistry-1**

**Date: 13-11-2019**  
**Time: 10:00am to 01:00pm**  
**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 synthesis, functions & fate of Haemoglobin. 15

**OR**

**Q.1** Describe in detail the Nervous control of blood pressure. 15

**Q-2:** Describe the physiology of spleen. 15

**OR**

**Q-2:** (A) Heart sounds 8

(B) Plasma proteins 7

**Q-3: Short notes (Any three):** 15

- (1) Staircase phenomenon
- (2) Megaloblastic anaemia
- (3) Diffusion
- (4) Heart block
- (5) Platelets

**Q-4: Write answers:** 5

- (1) Write names of different types of muscle tissues.
- (2) Define Purpura.
- (3) What is normal Heart rate?
- (4) Define Sol & Gel.
- (5) What is function of ribosome?

**Section-B**

Q-1: Describe Neural regulation of respiration. 15

**OR**

Q-1: Describe the process of Micturition reflex in detail. 15

Q-2: Describe the structure and function of Juxta Glomerular Apparatus. 15

**OR**

Q-2: (A) Lung capacities 8

(B) Renal function test 7

**Q-3: Short notes(Any three):** 15

- (1) Acclimatization
- (2) Bohr's effect
- (3) Glycosuria
- (4) Fever
- (5) Function of skin

**Q-4: Write answers:** 5

- (1) What is normal body temperature?
- (2) Define tetany.
- (3) What is cyanosis?
- (4) Define Asphyxia.
- (5) What is Cystometrogram?