

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF HOMOEOPATHY**  
**BHMS JUNE 2025 Examination**

Year: 1

Date: 05/06/2025

Subject Code: Hom UG-PB Paper - 1

Time: 10:00 am to 01:00 pm

Subject Name: Human Physiology &amp; Bio-Chemistry

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	Multiple Choice Questions (Each of one mark) (10 x 1 Mark)	(10)	CO	Level	Blooms
	1. _____ helps in cell division . a) Golgi apparatus b) Centrosome c) Lysosome d) Ribosome	1	5	1	Cognitive
	2. _____ is also known as suicidal bag of cell. a) Lysosome b) Centrosome c) Mitochondria d) Ribosome	1	5	2	Cognitive
	3. Osmosis depends upon _____. a) Concentration b) Osmotic pressure c) Size of pores d) All of above	1	5	2	Cognitive
	4. _____ is a process by which the more diffusible materials can be separated from non-diffusible materials. a) Filtration b) Osmosis c) Dialysis d) Diffusion	1	5	2	Cognitive
	5. Normal value of blood volume in adult human is ____ L. a) 2.5-3 b) 3-3.5 c) 3.5-4 d) 4.5-5	1	8	1	Cognitive
	6. Contraction of atrial musculature causes the production of ____ heart sound. a) First b) Second c) Third d) Fourth	1	8	1	Cognitive
	7. Characteristic feature of high altitude is the ____ barometric pressure. a) Medium b) High c) Low d) Ambient	1	8	1	Cognitive
	8. Diuretics are commonly called as ____ pills.. a) Urine b) Water c) Plasma d) Cleaning	1	11	2	Cognitive
	9. ____ sweat glands are nonfunctional till puberty and start functioning only at the time of puberty. a) Eccrine b) Apocrine c) Merocrine d) Salivary	1	2	2	Cognitive
	10. Muscle fibers are attached to a tough cord of connective tissue called _____. a) Epimysium b) Tendon c) Perimysium d) Endomysium	1	3	1	Cognitive
Q.2	Short Answer Question (08 x 5 Marks)	(40)	CO	Level	Blooms
	1. Mitochondria	5	5	1	Cognitive
	2. Osmosis	5	5	2	Cognitive
	3. Neutrophil	5	5	1	Cognitive
	4. Heart sounds	5	2	2	Cognitive
	5. Hypoxia	5	11	2	Cognitive

6.	Micturition reflex	5	2	1	Cognitive
7.	Functions of Skin	5	2	1	Cognitive
8.	Simple muscle curve	5	2	1	Cognitive

### Section-B

Q.1	Large Answer Question. (05 x 10 Marks)	(50)	CO	Level	Blooms
1.	Enumerate the factors involved in blood coagulation and describe the intrinsic mechanism of blood coagulation.	10	2	1 & 2	Cognitive
2.	Describe stages of Erythropoiesis with well labelled diagram.	10	4	1	Cognitive
3.	Define arterial blood pressure. Describe the nervous regulation of arterial blood pressure.	10	2	1 & 2	Cognitive
4.	Describe the transport of carbon dioxide from tissue to blood to environment.	10	1	1 & 2	Cognitive
5.	Describe structure & function of Nephron in detail.	10	3	1	Cognitive