

U.G. 2nd Semester Examination - 2021
Molecular Biology & Biotechnology
[HONOURS]
Course Code : MBBT(H)-201-P-CCR3
(Mammalian Physiology)
[PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

1. Describe the principle, requirement and, detailed procedure for performing any **one** of the following experiments. Also address the specific query appended with your chosen option: $10 \times 1 = 10$
- a) Expt. - Determination of the Coagulation Time of blood.
- Query – Among Intrinsic and Extrinsic pathway, which one is fast acting and why? $8+2$
- b) Expt. - Determination of the Blood Group of an individual.
- Query – Considering both Rh and ABO system, which blood type can be considered to be universal recipient? $8+2$

- c) Expt. - Determination of the Hemoglobin (Hb) content of blood by Sahli's method.

Query – Considering $14.8 \text{ gm\%} = 100\%$, calculate the corresponding g/dl for a reading of 80% in calibration tube? $8+2$

- d) Expt. – Determination of the Total Count of RBC or WBC in blood sample.

Query - Deduce the mathematical relationship between 1 cubic millimetre and 1 microlitre.

 $8+2$

2. Viva voce/ online internal assessment. 5
3. Lab note book. 5