

Project Design Phase-I
Proposed Solution

Date	01 OCTOBER 2022
Team ID	PNT2022TMID40063
Project Name	Plasma donor application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	plateletpheresis	During plateletpheresis, only platelets are collected. Platelets help blood to clot and are commonly given to people with cancer or people having major surgery.
2.	plasmapheresis	To donate blood plasma, you must meet all of the requirements for whole blood donation. There are four major blood groups: A, B, AB and O. Donors who are blood group AB are special plasma donors because their plasma can be given to any of the other blood types
3.	Double red cell donation	During double red cell donation, two units of red cells are collected. Red cells carry oxygen to all parts of the body. Red cells are typically given to people with sickle cell anemia or significant blood loss due to trauma or surgery. A red cell donation is typically transfused within days, so the need for this component is ongoing.
4.	plasma donations	Platelet, double red cell and plasma donations are each a type of apheresis — a method of collecting blood in which you're hooked up to a machine that collects and separates blood components (red cells, platelets and plasma) and returns unused components to you.