It is 55% liquid + 45% allular (plasma) Cellular components of bolood: (carry 02) White blood cells (alottellood) All blood cells arise from sten cells in hone marrow White Blood Cells :- They are the immune cells of blood Also known as Leukonytes Leukocyte agranular granular Basophil Lymphocytis Honocytes -Neutrophil _ Eosinophil Types of Leukocytes ? I granulocutes of They are involved in innate immunity

They have & granules in cytoplarm

1st line of defence against infection

They perform phagocytosis, releasing towns to kill pathogens

Their nectors is usually lobed 2) Agranulouster on They are involved in adaptive immunity.
They lack granulis in cytoplasm · Provides more specific, long term defence against pathogens · Lymphocytes provide anti-bodies (B cells) and regulate in nume superson Tulls).

· Their nucleus is usually round kidney shaped

Granucouters- (Produced in Prose Marrow) Neutrophile: They are the most abundant has of WBC, that takes part in body's defense against bacterial injections They are quick to regard to infection with and perform stage affections (ingest phathogens)

2) Ecemophils: They are involved in compating parasitic inections (such as worm)

and also by releasing an ansyme called histories to fight pathogens

during allergic reactions 3) Barophil - They are the last abundant type of WBC, that takes part in allergic and inflammatory suspenses freactions. They contain large amount of histamine which may be released in inquired tiences to increase inflamation. Agranulocytes: - (Produced in Lymph Glands and Splien) I Lymphocetes: They are central to adaptive immunity and come in Thymphocytes (Teells): These cells help regulate immeme responses and directly attack inflicted cancer cells.

Blymphocytes (B cells): These cells produce antibodies that target specific antigens, providing humoral mining.

Natural Killer cells: These cells recognise and distroy infected fancious cells without review expression to not those and distroy infected fancious. cells without prior exposure to pathogens. 2) Monocyty: They are the largest type of WBC, that are involved in phagocytosis. They differentiate into mackophages or dendritic cells; which take part in both innate & adaptive immunity.