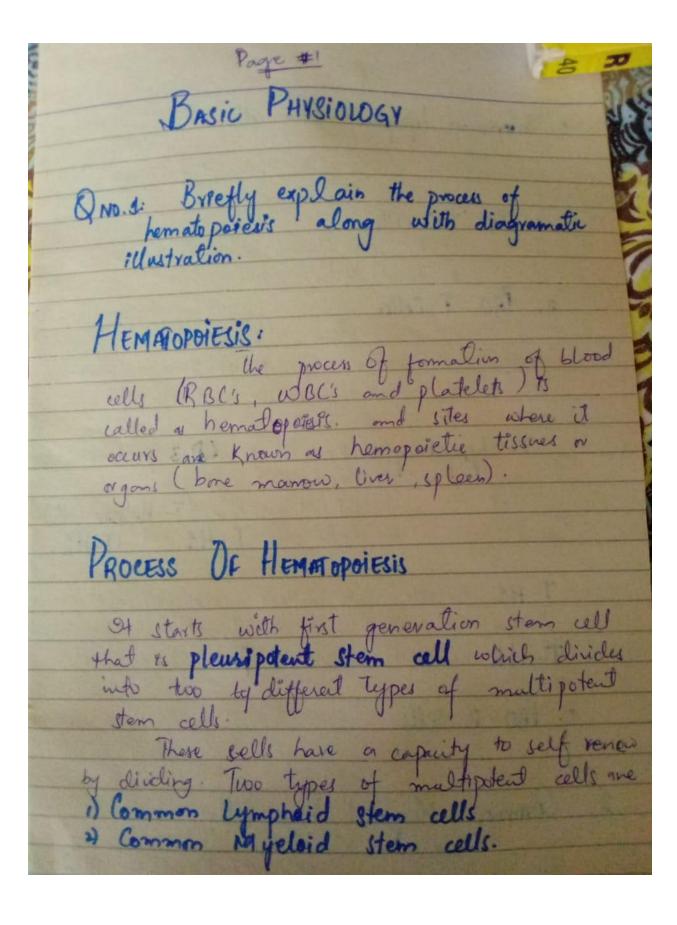
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Department	(AHS) DT
Subject	Basic Physiology
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A. Erythroid Megakaryoid Basophilic Stem Cells:

It is divided into 3 types of morphological precurers. cells.

> CFU Enythroid System.

> CFU Megakanjoid System

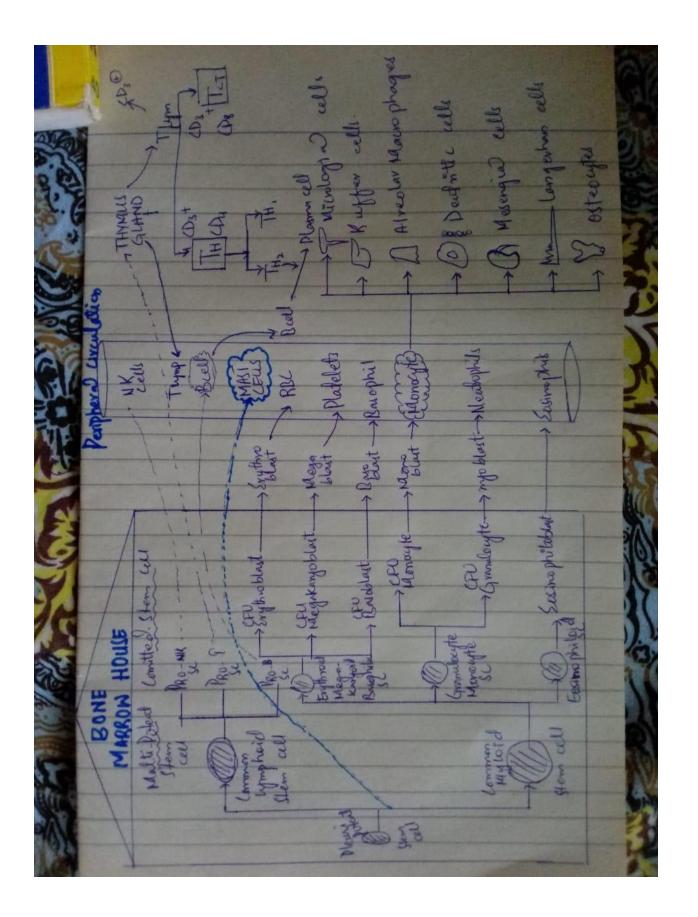
7 CFU Basophils System

B. Grammlogte Monocyte Stem cells:

It is diided into 2 types of morphological

> CFU For Grandougte

> CFU For Monocyte



QNO.2: What are the factors that influence the respiratory rate, explain in detail. > FACTORS INFLENCING RESPIRATORY RATE: · Physical Factors: - In creased Body Temperature:
The increase in temperature enhances the rate of cellular regination ! It is due to heat speeds up the reactions, means Kinetic energy is higher. When temperature decreases, in order to conserve energy, cellular Processes slow. + Exercise: The heart rate increases during exercise. The depth of breathing increases and more oxygon is absorbed into blood and more carbon dioxick & nomoved from it + Talking: In spokeh respiration the duration of Enspiration decreases and its relocity in creases. The duration of expiration increases

and the volume of air flow decreases

6 · Chemecal Factors: * Carbon Droxide Level: the main regulatory chemical for respiration.
The amount of Carbon dioxide in blood exerts a strong influence on sespiratory rate.

2 creased Cabon dioxide, increases respiration.

Changes in CO2 act directly on the Medulla Oblongator. Secondary influence on sespiratory vate. Normally oxygen level is so to somm the Respiratory vate is stimulated if it drops below 50. Changes in oxygen concentration in blood are detected by chemoreceptors in the aorta and carotid artery · Other factors: There are many factors that influence respiratory rate: age, gender, (it and worght; exercise, pair, effect of medicine, dright QNO.3. En list different layers of skin, write a detailed note on epidermis. layers of ectoclerma tissue, and guards the under lying muscles, bones, ligaments and internal organs. LAYERS OF SKIN: The human skin & composed of two primary The epidermis - which provides waterproofing and serves as a barrier to infection the desmes - which serves as location for the appendages of skin. Dermis is the layer of skin beneath the epideimis that consist of connective tissue and leushions the body from stress and strain. The dermis is tightly connected to the epidesmis by a basement membrane It consist of hair follicles, sweat glands sebaceous glands, apocrire glands, lymphatic ressels

0 EPIDERMIS: The epidermis of the outermost layer of the skin. It forms the waterproof, protective wrap ever the body's surface and is made up of statified squamous epithelium with an underlying bas a lamina. It is divided in: Stratum Corneum Stratum Lucidum Stratum granulasum Stratum spinosum Stratum germinativum. Stratum Corneum: It is outer layer of epidermis. It is made up it mostly keratin and apids. Stratum Lucidum: It is a thin, clear layer of dead exim cells. It is risible by light microscope. It is found in palms of hands and soles of feet. Stratum Granulosum:
The stratum granulosum & a thin layer of cells in epideones Keratinocytes migrating from the underlying stratum spinosum become known as

granular cells in this layer. Stratum Spinosum:
The spinosum as a layer of the opidermis found between the stratum granulosum and stratum basale. Stralum Germinalivum:

The stralum germinalivum, which translates to germinalive layer. This layer is composed of germinalive keralinocytes. These cells are actively dividing to provide new cells to replands lost skin from named shedding. QND.4: Define lymphalic System what are different components of lymphatic system? LYMPHATIC SYSTEM: The lymphatic system is a system of capillaries, vessels, nodes and other organs that transport a fluid called lymph from the tissues as it returns to the bloodstream.

The lymphatic tissue of these organs filters and cleans the lymph of any waste, abnormal cells, or pathogens. The lymphatic system also transports fatty acide from the intestines to the circulatory System.

Components of Cymphalic System.

The lymphatic system is a network of tissues and organs that primarily consists

- · lymph ressels (600 to 700 lymph rodes in human)
- · the tonsils (large clusters of lymphatic cells)
- · Adenoids
- · Spleen (lorgest lymphalicorgan)
 · Bymus (producing several hormones 4
 · Closely related to immune
 Syptom)

QNO.5: What is blood Pressure? How will you cheek and second blood pressure of patient? BLOOD PRESSURE: The keart produces pressure, The force of blood on the wall of the arteries is known as blood pressure.

Blood pressure decreases on the heart relaxes, but the rest of circulatory system is still under pressures How to check? When blood pressure & taken, the cuft 95 wrapped around the upper portion of the arm and pumped with air untill blood flow in the artery is blooked. > As the pressure in the cuff is relaxed.

2 mumbers are recorded.

• Systolic pressure the first number takens,

15 the force felt in the acteries when

the ventucles contract

