

1.		
2.		
3		
4.	Laboratory Note book	
5.	<i>Viva voce</i>	
TOTAL		20

CONTENTS:

1. Study of Models / Charts of different body organ systems & organs – Anatomical position, Structure & Functions.
2. Study of Human Skeleton
3. Study of Body Anthropometry- Stature, weight, sitting height, shoulder height (standing), Elbow height (standing), Hip height (standing), hand length, shoulder elbow length, leg length, shoulder breadth (biacromial), Arm reach from wall (Arm span), Knee to Knee Breadth, Elbow to elbow breadth, Head circumference, Shoulder circumference, Chest circumference, waist circumference, hip circumference. Calculation of BMI, BSA, WHR, Head and Chest circumference ratio.

Semester-II

Paper-2A (Theory)

HP- 102M

Full marks-75 (Internal assessment-30; End Sem. Exam. -45)

Unit-1: Physiology of Blood and body fluids-I

1. Composition and general functions of blood. Plasma - Plasma proteins- types and functions.
2. Haematopoiesis. Haemopoietic stem cell, Site of Blood cells Formation. Erythropoiesis –factors effecting. Fate of RBC.
3. Tissue fluid and Lymph- Composition and function.
4. ESR-its importance. Haemoglobin-structure, types. Thalassemia and Haemoglobinopathies- HbS, HbE, HbD.

Unit-2: Physiology of Blood and body fluids-II

1. Blood coagulation : mechanism, role of platelets. Hemophilia, purpura
2. Blood group -ABO, Rh system. Blood transfusion and its hazards.
3. Blood volume- Factor effecting and determination of blood volume.
4. Anaemia-types, leukemia, leukopenia, polycythemia.

Unit-3: Immunology

1. WBC-morphology, types. Functions of different types of WBC:
2. Primary and secondary lymphoid organ. Antigen, Immunogen. Primary and secondary immune response. Innate and acquired immunity.
3. Immunity-- Humoral immunity - classification, functions of antibodies. General structure of IgG antibody.
4. Cell mediated immunity-Role of NK cells, T_H and T_C cells. Vaccination.

Paper-2B (Practical)

HP- 102M

Full marks-25 (Internal assessment-05; End Sem. Exam. -20)

Sl. No.	Practical	Marks
1.		
2.		
3		
4.	Laboratory Note book	
5.	<i>Viva voce</i>	
TOTAL		20

CONTENTS:

1. Introduction to compound microscope.
2. Preparation and staining of blood film with Leishman's stain. Identification of blood cells.
3. Determination of differential leukocyte count (DLC).
4. Hemoglobin estimation by Sahli's hemoglobinometer.
5. Preparation of haemin crystals.
6. Determination of bleeding time and clotting time.
7. Determination of Blood group.