

1.4 MUNAFEUL AAZA
(Physiology)

Theory- Two Papers-200 Marks-(100 marks each)
Teaching Hours-225 hours

PAPER I

100 marks

(General Physiology and Biochemistry)

THEORY

1. Cytology and Histology:

- i: Cytology: Brief discussion and introduction of cytology
- ii: Tissue: Definition ,types, distribution, and function of tissues.

QHULIA:

Qhulia ki khurd beeni sakht-o-Afaal, Takhseem-e-Qhulia

INSAJA:

Tareef, Aqsaam, khurd beeni sakht ka phailao-wa-Afaal, Nasseje Bushra, Naseeje Waasil, Nassje Azlee wa Naseeje Asabi

2. BLOOD & HAEMOPOIETIC SYSTEM:

Definition of Blood, constituents, functions, viscosity, volume

BLOOD PLASMA: Constituents, Plasma Proteins and their functions

RBC: Structure, composition, formation, development & fate, total count, method of estimation & physiological variations

KHOON:

Khoon ki tareef, ajza, afaal, lazoojat aur hajam, Mahiyat-ud-dum, ajza, mavaade lahmiya, afaal

KURRIYAT-E-HAMRA:

Saqt, ajza-e-tarkeebi, paidaish aur numu, anjam, majmooyee taadaat, miqdaar ki takhmeen ke tareeqe aur unke feliyati iqhtilaaf

HAEMOGLOBIN: Composition, varieties, properties, method of estimation and functions

WBC: Types, formation, structure, functions, & Differential count

HAMRATUDDAM:

Ajza-e-tarkeeb, aqsaam, khwaas, miqdaar ki takhmeen ke tareeqe

AFAAL KURRIYAT-E-BAIZIYA:

Aqsaam, paidaish, afaal aur inke baahami tanasub

PLATELETS:

Structure, formation & functions,

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Coagulation of Blood:

Definition, Coagulation factors, Bleeding time, Clotting time and their estimation

Blood Groups:

Blood Transfusion & Blood Banks

3. Vitamins:

Definition, types, daily requirement and functions

Vitamin ki tareef, aqsaam, miqdar khurak aur afaal

4. METABOLISM:

Introduction to Metabolism, Metabolism of Carbohydrate, Metabolism of Lipids, Metabolism of amino acids, Mineral and Water metabolism.

ISTEHALA:

Istehala ki tareef, Nashasta ka istehala, Shamiyat ka istehala, Humooze Shorain ka istehala Madaniyat aur paani ka istehala

5. CIRCULATORY SYSTEM:

Introduction, Valves of Heart and their actions, Special Junctional Tissues, Properties of Cardiac Muscles, Cardiac cycle, heart block, Nerves of the heart, cardiac centre & its function, Electro-Cardiograph, Blood Pressure and its physiological control.

NIZAAM-E-DAURAN-E-KHOON:

Tareef, Samamaat-e-qalb aur inke afaal, Qalb ke makhsoos itsaali ansaja, Azla-e-qalb ki khusoosiyat, Daura-e-qalbi, aswaat-e-qalb, suqoot-e-qalb, Aasaab-e-qalb, 14mraz14-e-qalb aur iske afaal, Barqi qalb nigari, Fisharruddum aur iske feliyati avamil

6. LYMPHATIC & RETICULO-ENDOTHELIAL SYSTEM:

Formation and composition of lymph, Lymphatic channels, Lymphatic drainage, Lymph Glands Reticulo-endothelial system, its functions, spleen & its functions

NIZAM-E-UROOQ-E-LIMFAVIA AUR SHABKI-O-BASHREE BAATINI:

Rutubat-e-limfavia ki paidaish aur tarkeeb, rutubat-e-limfavia ka dauran, ghudood-e- limfavia, Nizam-e-shabkiya muhtina ki tamheed aur afaal, Tihaal aur iske afaal.

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