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**2.4 MAHIYATUL AMRAZ**  
(Pathology)

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

**PAPER I**

**100 Marks**

**(MAHIYATUL AMRAZ UMOOMI WA ILMUL JARASEEM)**  
(General Pathology and Microbiology)

**THEORY**

- I. Ilmul Ahwal
- II. Ilmul Asbab
- III. Ilmul Alamaat

**I. ILMUL AHWAL**

(A)

- a) Definitioin of Sabab , Marz & Arz
- b) Ahwale Badan, Sehat , Marz , Haalate Salisa
- c) Ajnase Amraaz : Amraaze Mufradah and Amraaze Murakkabah
  - i. **Amraaze Mufradah:** Soo-e-Mizaj , Soo-e-Tarkeeb , Tafarruq Ittesal ,
  - ii. **Amraaze Murakkabah:** Definition & classification of Auram aur uski aqsaam.

(B)

- a) Zarbe Khaliya (Cellular Injury): Fasadat & Saraiyat Nakhr (Necrosis), Infarcction, Ghangharana (Gangrene),
- b) Tatabuq (Adaptation): Zamoor (Atrophy), Tazakhkhum (Hypertrophy), Metaplasia, Hyperplasia.
- c) Itihib (Inflammation), Indemal (Healing and Repair),
- d) Fasade Khoon and Fasade Dawrane Khoon (Blood & circulatory disorders) Faqrudam aur Aqsam (Anaemia & types), Abyazud dam (Leukaemia & types), Nazaffudam (Haemorrhage), Salabate Shiryani (Arteriosclerosis), Aqdi Salabate Shiryani (Atherosclerosis), akhashuruddam (Thrombosis), Tasadududdam (Embolism), aflasuddam (Ischaemia)
- e) Fasade Rutubate Badan (Fluid and Electrolyte Imbalance): Qillate Rutubat (Dehydration), Tahabbuj (Oedema), Sadma (Shock),
- f) Mana'at (Immunity) and AIDS.
- g) Salaat (Neoplasm) ka ajmali bayan (General description)

**II. ILMUL ASBAB**

**Asbabe Kulli:**

Asbabe Badi'a, Asbabe Sabiqah, Asbabe Wasila, Ta'dia, Unani main tadiya ka tassavur.

- 1. Definition & classification of Asbab
- 2. Asbabe Badan:
  - (a) Asbabe Maddiyah
  - (b) Asbabe Suriyah
  - I Asbabe Failiali

- (d) Asbabe Tamamiyah
3. Asbabe Sehat wa Marz
- (a) Asbabe Sabeqah
  - (b) Asbabe Badiyah
  - I Asbabe Wasilah
  - (d) Asbabe Zarooriyah
  - (e) Asbabe Ghair Zarooriyah
  - (f) Asbabe Mohafizah
  - (g) Asbabe Mughiyarah
  - (h) Asbabe Mukhallifah
  - (i) Asbabe Ghair Mukhallifah
  - (j) Musakhinat, Mubaridat, Mujaffat
  - (k) Mufsidate Shakl

4. Umoomi Asbab:
- (a) Asbabe Warm
  - (b) Asbabe Tararruqe Ittisal
  - I Asbabe Qarah
  - (d) Asbabe Mufsadaate Shakal
  - (e) Asbabe Suddah aur Zeeqe Majari
  - (f) Asbabe Ittisae Majari
  - (g) Asbabe Khushunat
  - (h) Asbabe Malasat
  - (i) Asbabe Khula
  - (j) Asbabe Sue Tarkeeb
  - (k) Asbabe Waja
  - (l) Asbabe Taskeene Waja
  - (m) Asbabe Tuxhma wa Imtila
  - (n) Asbabe Ihtibaas wa Istifraagh
  - (o) Asbabe Zo'fe Aaza

### 3 Ilmul Alamaat :

Alamaat ke Umoomi Tazkira, Alamaat Fariqa, Alamaate Imtila, Ghal'bae Akhlat ke Alamaat, Alamaate Amzaja, Alamaate Sauda wa Warm, Alamaate Tafarruqe Ittisal, Alamaate Riyaah, Waja aur is ke Aqsaam.

### ILMUL JARASEEM (MICROBIOLOGY) :

Aqsaame Jarasim (Classification of Micro-organism), Qluwin (Staining), Jarasimi Af'aal (Microbial Activity), Antigen, Ajsam Ziddia (Anti -Bodies), their reaction, Jarasimi Sammiyat (Toxins), **General Description of following bacteria:**

- ✓ Gram Positive Bacteria (Cocci & Bacilli) such as Staphylococcus, Streptococcus, Pneumococcus, Clostridium Tetani, Mycobacterium Tuberculosis & M. Lepae.
- ✓ Gram Negative Bacteria (Cocci & Bacilli) such as Neisseria Meningitides and N. Gonococci, Salmonella, E. Coli, Shigella, Vibrio Cholera
- ✓ Spirochete: Treponema Pallidum
- ✓ Tufailiyat (parasites), fungi and Virus ka Ajmali Bayan (General dscription)