

Khaja Bandanawaz University
Faculty of Medical Sciences

Syllabus of Pathology for Ph.D Entrance Exam – 2025

A) General Pathology:

Normal cell and tissue structure and function:

Acute and chronic inflammation:

Hemodynamic disorders, thromboembolic disease, and shock:

Genetic Disorders

Neoplasia

Infectious Diseases

Environmental and nutritional pathology

Disease of Infancy and Childhood

Immunopathology

B) Systemic Pathology:

Blood vessels, lymphatic and veins

Heart

Lungs and Mediastinum

Head and Neck Pathology

Gastrointestinal Tract Pathology

Hepatobiliary system pathology

Renal Pathology

Lower urinary tract and male genital system

Female genital tract

Breast

Endocrine System

Skin and Subcutaneous tissue

Musculoskeletal system

Peripheral nerves and skeletal muscles

Skull and Central Nervous System

Eye and Orbit

C) Hematology and Transfusion medicine

Biology of stem cell and Hematopoiesis

Erythroid maturation, differentiation, and abnormality

WBC disorders, complement and immunoglobulin biology

Storage disorder

Hematological responses to Infections

Hematological malignancies

Hematopoietic stem cell transplantation

Prenatal diagnosis of genetic hematological diseases Hemostasis &

Thrombosis

Human blood group antigen and antibody and Immuno-hematology

Hematological manifestations of systemic diseases

D) Laboratory Medicine (Clinical Pathology including Parasitology)

- D) Special techniques
- E) Instrumentation and automation
- F) Quality assurance program
- G) Establishment Act and Rules and regulations formed by Govt. or regulatory bodies
- H) Biomedical Waste management
- I) Biostatistics, Research Methodology and Clinical Epidemiology
- J) Ethics and Medico legal aspects relevant to Pathology
- K) Current topics and recent advances in pathology