

Table of Specification – PhD Pathology (Haematology) Spring - 2024
NUMS Entry Test

Sr. No	Topic	No. of MCQs
	Level of Difficulty	
1	Hemopoiesis, erythropoiesis, general and clinical aspects of anaemia, iron deficiency anaemia, megaloblastic anaemia	10
2	Thalassaemia, haemolytic anaemias, Aplastic anaemia, stem cell transplantation	10
3	Acute leukaemia, chronic leukaemia, Multiple myeloma	10
4	Lymphomas, Myeloproliferative neoplasms and myelodysplasia	10
5	Haemostasis, bleeding disorders, coagulation abnormalities	10
6	Thrombophilia. Haematology in systemic diseases, pregnancy and paediatrics. Lab management	10
7	Transfusion medicine, immuno-haematology, blood banking	10
8	Molecular Biology <ul style="list-style-type: none"> ○ DNA: Structure and Function ○ RNA: Structure and Function & Types ○ Protein: Structure and Function ○ DNA regulatory sequences and regulatory protein ○ DNA Replication, Damage and Repair ○ Transcription/ Translation in Prokaryotes& Eukaryotes 	10
9	Techniques <ul style="list-style-type: none"> ○ PCR types and procedure ○ DNA/RNA Extractions ○ Restriction Endonucleases ○ Recombinant DNA technology 	05
10	Gel Electrophoresis <ul style="list-style-type: none"> ○ Research Methodology ○ Biostatistics/Analytical ○ Medical writing/Bioethics 	15
Total		100