

### Forensic Sciences PhD Entrance test- Syllabus

<b>Major Areas</b>	<b>Contents</b>	<b>Distribution/Weightage</b>
<b>Forensic Biology</b>	Structure of DNA, Basic facts about human genome (mitochondria and nuclear), Chargaff's rule, biological evidence and its types, Locard's exchange principle, Polymerase chain reaction, Basics of SNPs, STRs, CODIS, STR loci, Paternity testing, Restriction enzyme, RFLP, Polymerase and its uses in PCR	50
<b>Forensic serology</b>	Identification of test for different body fluids (blood, semen, Silva, Sweat). Blood and its composition, preservation of evidence), Hardy-Weinberg Equilibrium, Mendel's Laws	10
<b>Forensic Sciences/Forensic Medicine</b>	Areas of Forensic Sciences, Legal Procedure and medical ethics, common every day laws of constitution of Pakistan and Pakistan Penal code, Identification, Autopsy and Biopsy, thanatology, dactylography, Death and Post mortem changes	10
<b>Crime Scene Investigation</b>	Processing of Crime Scene, Types of evidence, Collecting, Cataloguing, and preserving the evidence	10
<b>Forensic Toxicology</b>	Characteristics of opiates, Hallucinogens, depressants, stimulants, anabolic steroids, and the so called club drugs	10
<b>General Knowledge/ Everyday Knowledge/ IQ Questions</b>		10
<b>Total</b>		<b>100</b>
<b>Recommended Books</b>	1- Forensic DNA typing ( John M Butler) (2 <sup>nd</sup> Edition) 2- Fundamentals of Forensic Sciences (2 <sup>nd</sup> Edition, Max M Houck	