

**Ph.D. FORENSIC SCIENCE ENTRANCE EXAMINATION**

**JAIN (DEEMED-TO-BE UNIVERSITY) Ph.D. in FORENSIC SCIENCE**

**Entrance Examination Syllabus Unit 1: General Forensic Science & Crime Scene Investigation**

* **Introduction to Forensic Science**: Forensic Institutions in Indian Context, Scope and Need for Forensic Science, Principles of Forensic Science
* **Expert evidence and Court Testimony**: Presentation of Expert Evidence, Examination in the Court, Expert Testimony, Court Testimony: Pre-court preparations, Examination-in-chief, Cross- examination, Re-examination – BSA (2023):142, leading questions [(BSA Sec) – 146(1-4), prosecution and defence lawyers, Ethics in Forensic Science.
* **Expert Evidence and Court Testimony:** Introduction to crime scene investigation, Definition and causation of Crime, Modus Operandi,
* **Crime scene management:** Collection, Packaging and preservation of the evidence, Documenting the crime scene and its importance, Note taking in the crime scene after discussion, Photography, videography of the scene of crime and the evidence.
* **Collection, Packaging and preservation of the evidence**: Respective Methods of collection, Packaging and preserving of evidence. Collection, Labelling, Packaging and sealing of the evidence. Examination of the evidence. Role in the court of law and importance of Chain of custody, Crime Scene Reconstruction

# Unit 2: Forensic Psychology

* **Forensic Psychology:** Sub-specializations of forensic psychology, Relationship between forensic psychology, criminology and criminal psychology, Ethical issues in forensic psychology, Daubert’s standard and Frye standard, Mc’Naughten rule, Insanity definition in Indian Penal Code (IPC section 84): Legal and medical insanity, Stages of mind.
* **Psychobiology of crime:** Introduction- Inhibitive and disinhibitive systems in the brain, Frontal controlling functions and response inhibition, Eye witness Testimony: Assessment of false memory, Interrogation and Confession: Reid Techniques in Interrogation of Suspects and PEACE Model
* **Violence and aggression:** Causes of violence, The Criminal Psychopath, Antisocial Personality Disorder, Sociopathy and Psychopathy, Criminal Homicide Sexual Assault and Rape, Typologies of Men Who Rape, The Massachusetts Treatment Centre Rapist Typology and The Groth Rapist Typology.
* **Criminal Profiling:** Types of profiling: Inductive and Deductive profiling, Process of profiling, Polygraph, Brain Electrical Oscillation Signature Profiling (BEOS), Narco- Analysis, Legal status of forensic psychological test in India.

# Unit 3: Criminology

* **Criminology:** Crime, Criminology and Criminal Justice Administration, Differences between concepts: Sin, Crime, Vice & Wrong, Deviance and Delinquency, Schools of Criminology: Pre- classical, Classical, Neo-classical, Positive schools of criminology: Anthropological theories, Morphological theories, Cartographic School.
* **Biological Theories:** Family-Genetics; Chromosomes and Genes- Study of twins and family trees, Differential Association Theory, Differential Opportunity Theory, Routine Activity Approach, Broken Windows Theory, Labelling Theory; Shame and Re-integrative Theory, Chicago School of Crime.
* **Police and Policing in Modern India**: Constitutional provisions regarding policing in India, Police Reforms in Independent India, National Police Commission Recommendations (NPC), Padmanabhaiah Committee Report, NH Vohra Committee Report, Types of Police Organization: Central Police Organizations, State Police and other branches, Executive powers and duties of police officers, International Criminal Police Organization

**Unit 4: Victimology**

* **Victimology:** Victim, Victimization and Victimology, Key Concepts in Victimology: Victim genesis, Victim Precipitation, Victim Blaming, Victim Vulnerability, Victimization Proneness, Victim Response, Victimless crimes, Abuse of power, Victim Assistance, PTSD, Psychological Impact of victimization
* **Typology of Victims**: Benjamin Mendelsohn- Hans Von Hantig; Selling and Wolfgang Typology of Victims: Primary Victimization- Secondary Victimization, Tertiary Victimization, -Mutual Victimization – No Victimization
* **Theories of Victimology:** Victim precipitation Model- Routine Activity Approach – Situated Transaction Model. Provisions for victim assistance: Types of Victim Assistance; Restitution - Compensation for Victims of Crime and abuse of power - Victim Compensation - Sec 357 CrPC and its amendments; Solatium Fund.

**Unit 5 : Contemporary Crime and Criminological Concerns & Prisons and Penology**

* Juvenile justice, Environmental Crimes, Honours Crimes; Victimless Crimes Drug Addiction, Commercial Sex Trade, Suicides Economical Crimes: White Collar Crime; Forms of Economical Crimes-corruption.
* Cyber Crimes, Organized Crimes: Transnational Organized Crimes -Human Trafficking-drug trafficking, Terrorism and National Security, need of modern approach in policing to tackle the contemporary crime issues.
* Origin and Concepts of Penology, Punishments and Prison System in India, Reformation and Rehabilitation of Prisoners - Relevant Programs in India.
* Classes of prisons, classes of prisoners and prison reforms
* Role of psychiatrists, psychoanalysts and social workers, vocational and educational programmes for offenders. re-socialization processes, community participation, use of probation, parole
* Problems and challenges in Indian Prisons - Human Rights of Prisoners.

# References

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