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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20CR2005** | **Duration** | **3hrs** |
| **Course Title** | **POLICE ADMINISTRATION** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Describe the ancient policing system in India. | CO1 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Write about the following central police organizations CBI & IB | CO2 | A | 20 |
|  |  |  |  |  |  |
| 3. | a. | Chart the general functioning of the State CID system (SB CID) | CO3 | E | 10 |
|  | b. | Elaborate the functioning of the police training college. | CO3 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Illustrate the general principles of crime investigation. | CO4 | C | 20 |
|  |  |  |  |  |  |
| 5. |  | Write about the National Police Commission Report VII on police functioning and reforms. | CO5 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Sustained marching of beats and patrol will be effective in crime prevention - substantiate. | CO5 | E | 20 |
|  |  |  |  |  |  |
| 7. |  | Describe the duties of the station house officer. | CO6 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Explain various types of surveillance that helps crime prevention. | CO4 | U | 10 |
|  | b. | Outline the training pattern provided in the Sardar Patel National Police Academy. (NPA) | CO1 | A | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Write in detail about the Police Station sentry duty and station safety and the Personal Search Register (PSR). | CO3 | R | 10 |
|  | b. | Enumerate the village Administrative officer’s functions as village police. | CO2 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Know the structure and functions of Indian police and related establishments. |
| CO2 | Understand the concepts of police administration and crime prevention. |
| CO3 | Learn the basic duties of police. |
| CO4 | Understand the process of recruitment and training in Police Department. |
| CO5 | Understand the operation and powers of special units of the Tamil Nadu Police. |
| CO6 | Apply theoretical knowledge to practical issues in the Police department. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 | 10 |  |  |  | 30 |
| CO2 |  | 10 | 20 |  |  |  | 30 |
| CO3 | 10 |  | 10 |  | 10 |  | 30 |
| CO4 |  | 10 |  |  |  | 20 | 30 |
| CO5 |  |  |  | 20 | 20 |  | 40 |
| CO6 |  |  |  |  | 20 |  | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20CR2009** | **Duration** | **3hrs** |
| **Course Title** | **PSYCHOLOGY OF CRIME** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Critically analyze in your words, how Frustration leads to criminal behavior. | CO1 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Explain the importance of criminal psychology in the field of criminal justice. | CO2 | A | 20 |
|  |  |  |  |  |  |
| 3. |  | Narrate Maslow’ hierarchy of needs with examples. | CO3 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Discuss the work of Ivan Pavlov in the context of Classical conditioning. | CO4 | C | 20 |
|  |  |  |  |  |  |
| 5. |  | Annotate Bandura’s Social Learning Theory and its connection with criminology. | CO5 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Point out clearly, different theories of perception. | CO5 | An | 20 |
|  |  |  |  |  |  |
| 7. |  | Debate the importance of psychology in helping and assisting a criminal investigation. | CO6 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Identify the role of environment in molding an individual’s personality. | CO4 | U | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Vividly narrate the psychodynamic theory. | CO3 | R | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand the concept of psychology and various branches involved |
| CO2 | Analyze the psychology of the mind, abnormalities and problem-solving capabilities |
| CO3 | Illustrate the concept of perception and cognitive aspects of an individual |
| CO4 | Understand the psychological concepts and environmental determinants of behavior leading to crime causation |
| CO5 | Explain the main behavioral assumption about offenders associated with general psychological theory |
| CO6 | Learn the personality traits and psychosexual development acting behind the psychological behavior of a person |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 |  |  |  |  | 20 |
| CO2 |  |  | 20 |  |  |  | 20 |
| CO3 |  | 20 |  |  | 20 |  | 40 |
| CO4 |  | 20 |  |  |  | 20 | 40 |
| CO5 |  |  |  | 40 |  |  | 40 |
| CO6 |  |  |  |  |  | 20 | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20CR2010** | **Duration** | **3hrs** |
| **Course Title** | **VICTIMOLOGY** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Define Victimology. Explain the connection between Criminology and Victimology. | CO1 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Write short notes on a. Victim Blaming b. Secondary Victimisation | CO2 | A | 20 |
|  |  |  |  |  |  |
| 3. |  | Write the salient features of the Universal Declaration of Basic of Principals of Justice for victims of crime and Abuse of Power 1985 | CO3 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Victim precipitation was a term first used by Wolfgang to describe situation in which the victim was the initial aggressor that led to their victimisation – Discuss | CO4 | C | 20 |
|  |  |  |  |  |  |
| 5. |  | Justify the points put forth on victimisation through the Deviant Place Theory | CO5 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Give short notes on a. Fear of Crime b. Dark figure | CO5 | An | 20 |
|  |  |  |  |  |  |
| 7. |  | Narrate the practice of victim blaming, invulnerability theory and the effects of Victim blaming. | CO6 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Elaborate on the ‘bystander effect’ incorporating the ‘pluralistic ignorance’ with one case study example. | CO4 | U | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Compile and present the types and impacts of victimisation | CO3 | R | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
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|  | **COURSE OUTCOMES** |
| CO1 | understand the origin and development of victimology and the role of the un declaration of 1985 on victimization. |
| CO2 | gain knowledge on dimensions of victimization and types of victims. |
| CO3 | have the urge to implement victim assistance as a rule and not as an option. |
| CO4 | equip them for critical analysis of victimization, victim justice and the development of victim justice policies. |
| CO5 | understand the history and development of the global movement towards rights of victims of crime and abuse of power. |
| CO6 | appreciate various victim assistance measures and support systems in India and other countries. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 |  |  |  |  | 20 |
| CO2 |  |  | 20 |  |  |  | 20 |
| CO3 | 20 |  |  |  | 20 |  | 40 |
| CO4 |  | 20 |  |  |  | 20 | 40 |
| CO5 |  |  |  | 40 |  |  | 40 |
| CO6 |  |  |  |  | 20 |  | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20CR2014** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC MEDICINE** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define Adipocere. Attach the medicolegal importance. | CO1 | U | 10 |
|  | b. | Give short notes on a. Medical Certificates b. Dying declaration  c. Counter coup injuries d. Chocking | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Present brief note on 1. Cadaveric Spasm 2. Postmortem Caloricity | CO1 | An | 10 |
|  | b. | Narrate the process of cooling of the dead body and the evidence derived from the state. | CO2 | E | 10 |
|  |  |  |  |  |  |
| 3. | a. | Give brief notes on  1. Electrocution and signs  2. Lightning and indicators | CO2 | A | 10 |
|  | b. | Define Oral Evidence: It is said oral evidence plays an important role in criminal investigation – validate. | CO2 | C | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | The time of death can be approximately fixed from the study of putrefaction – substantiate | CO3 | E | 10 |
|  | b. | Evaluate the importance of evidences collected of Forensic Autopsy. | CO3 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Describe maceration and its process and its medico legal importance. | CO4 | C | 10 |
|  | b. | Define dactylography. Illustrate the types of finger print found in individuals and its evidentiary value. | CO4 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Give a vivid description on various injuries caused on the skull. | CO4 | An | 10 |
|  | b. | Describe the salient features of the Indian Medical Council of Act 1956 | CO5 | C | 10 |
|  |  |  |  |  |  |
| 7. | a. | Compare and contrast the somatic death and cellular death in detail. | CO5 | E | 10 |
|  | b. | Tabulate various types of death due to asphyxia and annotate the symptoms that a FM doctor will register in his post mortem report. | CO5 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Analyze the medico Legal importance of Livor mortis / Post Mortem Staining. | CO5 | U | 10 |
|  | b. | Write short notes on : a. Embalming b. post mortem injuries | CO5 | A | 10 |
| **PART – B (2 X 10 = 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. |  | Highlight the medico Legal importance of Autopsy / Postmortem in a criminal case. | CO6 | U | 20 |

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|  | **COURSE OUTCOMES** |
| CO1 | understand the definition and various concepts of forensic medicine and medical jurisprudence |
| CO2 | apply the knowledge to explain the changes after death which helps to find out the causes of death |
| CO3 | outline various methods on how a dead body can be identified to solve both criminal and civil case |
| CO4 | illustrate various forms of injuries and sexual offences which helps to understand and reconstruct the crime, to connect the victim and the criminal with the crime. |
| CO5 | understand the different types of death and the reason for death helps to solve a case |
| CO6 | learn the legal procedures and evidences involved medico legal autopsy. |

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| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  | 10 |  | 10 | 40 |
| CO2 |  |  | 10 |  | 10 | 10 | 30 |
| CO3 |  | 10 |  |  | 10 |  | 20 |
| CO4 | 10 |  |  | 10 |  | 10 | 30 |
| CO5 |  |  | 10 | 10 | 10 | 10 | 40 |
| CO6 |  | 20 |  |  |  |  | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20CR2015** | **Duration** | **3hrs** |
| **Course Title** | **PENOLOGY & CORRECTIONAL ADMINISTRATION** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Elucidate the needs of punishment and methods of corporal punishment in India. | CO1 | U | 10 |
|  | b. | Describe the types of punishment in medieval India. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Explain different forms and objectives of capital punishment. | CO2 | An | 10 |
|  | b. | Summarize the historical development of Prison system in British period and functions of Prison disciplinary committee during those period. | CO2 | E | 10 |
|  |  |  |  |  |  |
| 3. | a. | Write about present scenario of Prison system in India. | CO3 | A | 10 |
|  | b. | Elucidate the TamilNadu state amendments in Indian Prison Act, 1900. | CO3 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Critically analyze the causes, preventive measures, and methods of controlling Prison Riots and Disturbances. | CO3 | An | 10 |
|  | b. | Elaborate the method of punishments practiced in Pennsylvania prison system. | CO3 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Illustrate the Nelson Mandela Rules according to UN standard minimum rules for the Treatment of Prisoners. | CO3 | C | 10 |
|  | b. | Explain details about the modernization of Prison system in India- Reformation & Rehabilitative approach. | CO4 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Write in details about conditions essentials for good prison system in India. | CO4 | E | 10 |
|  | b. | Elucidate the duties and responsibilities of Borstal school and Juvenile care Institutions for Children in conflict with the law. | CO4 | An | 10 |
|  |  |  |  |  |  |
| 7. | a. | Examine the salient features of enactment in Probation of Offenders Act, 1958. | CO5 | E | 10 |
|  | b. | Clarify the difference between Parole & Furlough. | CO5 | E | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Describe the origin and objectives of Parole system & different kinds of Parole being practiced in India. | CO5 | U | 10 |
|  | b. | Write details about advantages and disadvantages of Parole system in India. | CO5 | A | 10 |
| **PART – B (2X 10 = 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain Discharge Prisons Aid society. | CO6 | U | 10 |
|  | b. | Describe the role of NGO’s in after-care services for connect with social welfare department. | CO6 | R | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
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|  | **COURSE OUTCOMES** |
| CO1 | Know the historical development of punishments |
| CO2 | Understand the concepts and theories of punishments |
| CO3 | Understand the establishment, functioning and the role of correctional institutions in rehabilitation, reformation and re-socialization in the Indian CJS. |
| CO4 | Help the students to develop a basic understanding of the discipline of penology, the concept of punishment and its overall significance in the field of criminology. |
| CO5 | Help the students to understand the legal and structural framework of the Indian penal system from a comparative perspective. |
| CO6 | Help the students to understand the prison management, prison administration and types of prisons in India. |

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| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  |  |  |  | 20 |
| CO2 |  |  |  | 10 | 10 |  | 20 |
| CO3 |  | 20 | 10 | 10 |  | 10 | 50 |
| CO4 |  |  |  | 20 | 10 |  | 30 |
| CO5 |  | 10 | 10 |  | 10 | 10 | 40 |
| CO6 | 10 | 10 |  |  |  |  | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20CR2018** | **Duration** | **3hrs** |
| **Course Title** | **HUMAN RIGHTS** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Enumerate the various theories of Human Rights with significance to its history and landmark developments of Human Rights. | CO1 | E | 10 |
|  | b. | Explain in detail the role, structure and functions of SHRC. | CO1 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Discuss the Directive Principles of State Policy with relevance to Indian Constitution. | CO2 | U | 10 |
|  | b. | Explain in detail the importance of Universal Declaration of Human Rights 1948. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Explain in detail ICESCR 1966. | CO3 | An | 10 |
|  | b. | Discuss in detail the Convention on the Rights of the Child 1989. | CO3 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Define Trafficking and suggest measures to prevent it. | CO4 | C | 10 |
|  | b. | Define custodial violence and discuss about the pros and cons of custodial violence. | CO4 | C | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain the role and functions of Human Rights Watch. | CO5 | An | 10 |
|  | b. | Discuss the structure and functions of Amnesty International. | CO5 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Describe ‘Peoples Watch’ and its role in protecting Human Rights. | CO2 | U | 10 |
|  | b. | Explain in detail the Law of Limitations. | CO2 | E | 10 |
|  |  |  |  |  |  |
| 7. | a. | Discuss the role and functions of International Red Cross Society. | CO6 | A | 10 |
|  | b. | Explain the Rights of the accused and Rights of the victims. | CO4 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Enumerate the role of NGOs in protecting Human Rights. | CO6 | A | 10 |
|  | b. | Explain in detail the role and functions of HRF. | CO6 | C | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Describe the role, structure and functions of NHRC. | CO6 | C | 10 |
|  | b. | Explain Gender and Sexual Harassment in Indian context and suggest eradication measures. | CO5 | E | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
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|  | **COURSE OUTCOMES** |
| CO1 | **S**ummarize the history, types and theories of human rights. |
| CO2 | Outline the constitutional provisions in safeguarding human rights. |
| CO3 | Get an insight into the national and international instruments safeguarding human rights. |
| CO4 | Gain knowledge about the international conventions protecting the rights of the gender and children. |
| CO5 | Summarize the rights of victim and accused under criminal justice administration, |
| CO6 | Gain knowledge on working of NGO’s in protecting human rights. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  |  |  | 10 | 10 |  | 20 |
| CO2 |  | 30 |  |  | 10 |  | 40 |
| CO3 |  |  | 10 | 10 |  |  | 20 |
| CO4 |  |  |  | 10 |  | 20 | 30 |
| CO5 |  |  | 10 | 10 | 20 | 10 | 50 |
| CO6 |  |  | 10 |  |  | 10 | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20CR2019** | **Duration** | **3hrs** |
| **Course Title** | **PRIVATE DETECTIVE AND SECURITY MANAGEMENT** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Describe the care and caution taken by the Airport Security and Anti-Hijacking wing to protect the passengers and property. | CO1 | R | 10 |
|  | b. | Compare and contrast the functioning of natural barriers and human barriers in the security aspect. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Articulate the process of Blackmail investigation. | CO2 | An | 10 |
|  | b. | Explain the prospects of Private Detective job as a profession. | CO2 | A | 10 |
|  |  |  |  |  |  |
| 3. | a. | i) Analyze the importance of ‘missing persons’ investigation.  ii) Quote the following case study  The murder of an eleven-year-old girl in Delhi's Nangloi area, which was solved through a missed call. | CO3 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Annotate vividly the traffic accident investigation. | CO4 | U | 10 |
|  | b. | Compare and contrast the undercover and surveillance used in the field of private and governmental investigation. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Report writing in a criminal case will culminate in conviction – substantiate. | CO5 | E | 10 |
|  | b. | Chart various types of security areas such as exclusion area, limited area and control area and highlight the importance attached to such seclusion. | CO2 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Identify the kind of tools and techniques used in the interviews and interrogation of witnesses and accused respectively, during a crime investigation. | CO6 | C | 10 |
|  | b. | Analyze the four areas of `physical security’ and suggest measures to appreciate hassle-free functioning. | CO6 | C | 10 |
|  |  |  |  |  |  |
| 7. | a. | Note down points on the following area:  i) Employees participation in Industrial security  ii) Use of Dogs in Industrial Security | CO4 | An | 10 |
|  | b. | Jot down the powers and functions of the State and Central Regulatory boards as per the Private Detective (Regulatory) Bill 2007. | CO2 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Write short notes on **a**. Strike b. Lay off c. Lock out d. Gherao | CO6 | A | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | List the nuances of the investigation in the Land Dispute / Property Litigation cases. | CO6 | An | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Able to practice different types of investigation |
| CO2 | Remember and practice the various interrogation methods used during investigation and to know the records used for identification of crimes. |
| CO3 | Students will be well versed with witness interviewing and suspect interrogation techniques. |
| CO4 | Able to understand the crime prevention methods and security industry |
| CO5 | Students will understand the security officer’s duties and preventive measures. |
| CO6 | Students will understand the technologies which are used in the security field. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  |  |  |  | 20 |
| CO2 | 10 |  | 20 | 10 |  |  | 40 |
| CO3 |  |  |  | 20 |  |  | 20 |
| CO4 |  | 20 |  | 10 |  |  | 30 |
| CO5 |  |  |  |  | 10 |  | 10 |
| CO6 |  |  | 20 | 20 |  | 20 | 60 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20CR2020** | **Duration** | **3hrs** |
| **Course Title** | **CRIME PREVENTION** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | i) Explain the evolution of crime prevention.  ii) Describe the various types of crime prevention. | CO1 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | i) Define Recidivism and Probation.  ii) Explain effective strategies for reducing recidivism. | CO2 | E | 20 |
|  |  |  |  |  |  |
| 3. |  | i.) Identify and explain the principles of ‘Crime Prevention Through Environmental Design’ (CPTED).  ii) Provide suitable examples for each method of CPTED. | CO3 | An | 20 |
|  |  |  |  |  |  |
|  |  | **(OR)** |  |  |  |
| 4. |  | Write short notes on the role of the following in preventing crime :   1. Crime Prevention Bureau. 2. All India Women’s conference. 3. World Vision India. 4. Friends of Police. | CO4 | E | 20 |
|  |  |  |  |  |  |
| 5. |  | i.) Define Punitive Justice.  ii.) Explain the types and characteristics of punitive justice, providing examples to illustrate each OF THEM. | CO5 | A | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Write short notes on the following:   1. Chicago area Project 2. INTERPOL 3. Special Police Officer 4. Community Watch | CO6 | C | 20 |
|  |  |  |  |  |  |
| 7. |  | Illustrate work – service rendered by the following in crisis intervention of women and children.   1. Dhwani -crisis hotline 2. Udayam – AWPS Crisis intervention 3. Astitva - Critical intervention – Domestic violence victims. 4. Vidial – for burn survivors | CO6 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Elaborate on the efficiency of the following in preventing crimes in the society.  a. ‘May I Help You’ desk.  b. Beats and Patrol  c. Police intervention programs.  d. Night rounds and preventive arrests. | CO6 | E | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Compile the role played by the Boys & Girls Club in crime prevention through grooming the children in need of care and protection. | CO6 | E | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understanding what is crime, preventive measures, critically analyse the different programs adopted in the crime prevention techniques. |
| CO2 | Develop analytical and critical capacities in assessing crime prevention theory and practice. |
| CO3 | Assess the pros and cons relating to the implementation of crime prevention techniques and policies. |
| CO4 | Understand the systematic crime and delinquency process besides situational crime prevention methods apply theoretical knowledge to practical problem. |
| CO5 | Understand the causation of delinquency and the community role in curbing it. |
| CO6 | Judge Crime prevention – comparison – Indian and international perspective. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 |  |  |  |  | 20 |
| CO2 |  |  |  |  | 20 |  | 20 |
| CO3 |  |  |  | 20 |  |  | 20 |
| CO4 |  |  |  |  | 20 |  | 20 |
| CO5 |  |  | 20 |  |  |  | 20 |
| CO6 |  |  |  |  | 60 | 20 | 80 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20CR2021** | **Duration** | **3hrs** |
| **Course Title** | **CRIMINAL PROFILING** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | 1. Explain the purpose of criminal profiling in investigations. 2. Describe how profiling assists law enforcement agencies in narrowing down suspects. | CO1 | U | 10 |
|  | b. | Annotate the various profiling techniques used in criminal investigations. | CO1 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Highlight the ethics and legal aspects that are followed in criminal profiling in Indian context. | CO2 | A | 10 |
|  | b. | **i)** Illustrate examples of cases where inductive profiling was used versus cases where deductive profiling was used.  **ii)** Provide scenarios to demonstrate how each method guides investigative strategies. | CO2 | An | 10 |
|  |  |  |  |  |  |
| 3. | a. | **i)** Explain the purpose of geographical profiling in predicting an offender's likely home base based on crime locations.  **ii)** Describe how psychological autopsy helps in understanding a victim's mental state and circumstances leading to their death. | CO3 | U | 10 |
|  | b. | Define victim profiling, its purposes in criminal profiling and support the answer with suitable examples. | CO3 | C | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Explain the characteristics of each typology of serial killers and list the psychological motivations behind each type. | CO4 | E | 10 |
|  | b. | Define and illustrate psychopathy, psychopathic traits, core features of psychopathy and relationship between psychopathy and serial killers. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Elaborate the functioning of polygraph device and its features, and the evidentiary value in the court of law. | CO5 | U | 10 |
|  | b. | Present a vivid note on Narco-Analysis, its principle, features and importance in crime investigation. | CO5 | E | 10 |
|  |  | **(OR)** |  |  |  |
| 6. |  | **i)** Summarize the usage of the ‘Portrait Parle’ method in police investigations.  **ii)** Highlight its role in aiding the identification of suspects and enhancing investigative processes. | CO6 | C | 20 |
| 7. |  | Write about the validity of ‘screening techniques’ used in forensic investigation.  Opine it’s i) Admissibility, ii) Reliability in the court of law. | CO5 | C | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | **i)** Assess the effectiveness of criminal psychology in preventing crime and rehabilitating offenders.  **ii)** Discuss the ethical considerations and challenges faced by criminal psychologists in their profession. | CO5 | E | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | If a community is experiencing a sudden spike in violent crimes, what steps should a profiler take to identify and address the root causes? | CO6 | E | 10 |
|  | b. | Highlight the ethics and legal aspects that are in practice in criminal profiling in Indian context. | CO6 | E | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Acquire an understanding of basic concept of profiling and appreciate the challenges of  applying profiles for intelligence and investigative use |
| CO2 | Understand the differences between inductive &amp; deductive profiling methods. |
| CO3 | Evaluate the use of criminal profiling and methods to link cases in criminal investigations |
| CO4 | Outline the types of crimes for which a criminal profile is necessary |
| CO5 | Gain an appreciation of the scientific and non-scientific methods of profiling various  Crimes |
| CO6 | Understand the legal and ethical contexts surrounding the use of profiling |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 10 |  | 10 |  |  | 20 |
| CO2 |  |  | 10 | 10 |  |  | 20 |
| CO3 |  | 10 |  |  |  | 10 | 20 |
| CO4 |  | 10 |  |  | 10 |  | 20 |
| CO5 |  | 10 |  |  | 30 | 20 | 60 |
| CO6 |  |  |  |  | 20 | 20 | 40 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20CR2022** | **Duration** | **3hrs** |
| **Course Title** | **MEDIA AND CRIME** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Expound the positive and negative trends in journalism | CO1 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Classify different types of communication and usages. | CO2 | A | 20 |
|  |  |  |  |  |  |
| 3. |  | Explain in detail the role of media in crime reporting. | CO3 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Elucidate the ethics of journalism in detail. | CO4 | C | 20 |
|  |  |  |  |  |  |
| 5. |  | Write a vivid report on investigative journalism. | CO5 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Explain reliability and validity in crime reporting with suitable examples. | CO5 | An | 20 |
|  |  |  |  |  |  |
| 7. |  | Highlight the different types of writing styles with suitable examples. | CO6 | E | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Describe the ways and means on the do’s and don'ts in social media reporting | CO4 | U | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Write the theory for theory of desensitization connecting the portrayal of police in the media. | CO3 | R | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Have obtained knowledge of the most central questions and positions surrounding the connection between media and crime. |
| CO2 | Have an understanding of the link between media representations and crime. |
| CO3 | Acquire the skill to critically interpret media and recognize the construction of crime and justice. |
| CO4 | Determine how media coverage varies across various forms of crime. |
| CO5 | Have an understanding of how images of crime and justice vary across different forms of media. |
| CO6 | Understand how images of crime and justice vary across different forms of media. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 |  |  |  |  | 20 |
| CO2 |  |  | 20 |  |  |  | 20 |
| CO3 | 20 |  |  |  | 20 |  | 40 |
| CO4 |  | 20 |  |  |  | 20 | 40 |
| CO5 |  |  |  | 40 |  |  | 40 |
| CO6 |  |  |  |  |  |  |  |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20CR2024** | **Duration** | **3hrs** |
| **Course Title** | **CYBER CRIME** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Write a short note on the following   1. Cyber Terrorism. 2. Data diddling. 3. Hacking. 4. Online dating scams. | CO1 | R | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Describe malware and mention the types of malware with examples. | CO2 | U | 20 |
|  |  |  |  |  |  |
| 3. | a. | Write a short note on cyber pornography. | CO3 | A | 10 |
|  | b. | Explain child pornography with a sensational case study | CO3 | C | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Critically evaluate the advantages and disadvantages of internet. | CO4 | E | 10 |
|  | b. | Write short notes on cyber vandalism and phishing | CO4 | C | 10 |
|  |  |  |  |  |  |
| 5. |  | Explain the probable security threat that results due to ‘Cyber Espionage’ with a case study. | CO5 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Explain some of the cybercrimes that are targeting the banking sector. | CO4 | C | 20 |
|  |  |  |  |  |  |
| 7. |  | Define Intellectual Property Rights and explain in detail the different type’s violations that take place. | CO5 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Explain the history and evolution of Cybercrime down the line. | CO6 | C | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Present a comprehensive report about the Cyber Appellant Tribunal. | CO6 | An | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
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|  | **COURSE OUTCOMES** |
| CO1 | Know various forms of cyber crimes |
| CO2 | Understand the prevention techniques of cybercrimes. |
| CO3 | Help the students to understand the role of victims and offenders in cyberspace. |
| CO4 | Students understand the definitional, technical and social aspects of cybercrimes. |
| CO5 | Students understand the emerging crime threats and trends in cyberspace. |
| CO6 | Have an awareness on the existing legal provisions for cyber-crime prevention |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 |  |  |  |  |  | 20 |
| CO2 |  | 20 |  |  |  |  | 20 |
| CO3 |  |  | 10 |  |  | 10 | 20 |
| CO4 |  |  |  |  | 10 | 30 | 40 |
| CO5 |  | 20 |  | 20 |  |  | 40 |
| CO6 |  |  |  | 20 |  | 20 | 40 |
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| **Course Code** | **20CR2026** | **Duration** | **3hrs** |
| **Course Title** | **GENDER AND CRIME** | **Max. Marks** | **100** |

**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **QUESTIONS** | | **CO** | **BL** | **M** |
| **PART – A(4 X 20= 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Write a vivid note on the difference between Gender and Sex. | CO5 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Evaluate the terms Gender inequality and Gender equality. | CO4 | C | 20 |
|  |  |  |  |  |  |
| 3. |  | Highlight the prevalence of Gender inequality and gender role in India. | CO2 | A | 20 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Discuss masculinity and Femininity and explain the traditional gender stereotype. | CO2 | An | 20 |
|  |  |  |  |  |  |
| 5. |  | Describe the topics- a. ‘transgender’ b. ‘inter sexuality’ c. Equal Remuneration Bill 1976. | CO3 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Define ‘Gender pay gap’. Analyze its causes and concerns. | CO4 | E | 20 |
|  |  |  |  |  |  |
| 7. |  | Define the following - a. Glass ceiling b.Glass Cliff c. Sticky Floor. | CO6 | C | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Explain how the gender issues are addressed in the UN Documents. | CO5 | U | 20 |
| **PART – B(1 X 20= 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. |  | Define the sociological theories on ‘gender’. | CO6 | A | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
| **Course Outcomes for Assessment in this IA:** | |
| CO1 | have knowledge regarding gender and crime. |
| CO2 | will have awareness on societal construction on gender gap and contemporary specific theories to overcome it |
| CO3 | aware about Indian laws in gender equality. |
| C04 | understand various international instrument on gender equality. |
| CO5 | theoretical knowledge on gender and crime. |
| CO6 | compare the statistics of crime committed by different gender. |

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| **Course Outcome wise Mark Distribution** | | | | | | | |
| **COs** | **Remember** | **Understand** | **Apply** | **Analyze** | **Evaluate** | **Create** | **Total** |
| CO1 |  |  |  |  |  |  |  |
| CO2 |  |  | 20 | 20 |  |  | 40 |
| CO3 |  | 20 |  |  |  |  | 20 |
| CO4 |  |  |  |  | 20 | 20 | 40 |
| CO5 |  | 20 |  | 20 |  |  | 40 |
| CO6 |  |  | 20 |  |  | 20 | 40 |
| **Total** | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20CR2027** | **Duration** | **3hrs** |
| **Course Title** | **NGO MANAGEMENT** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | Narrate the Origin and development of the Non-Governmental Organisation. | CO1 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | List the challenges in launching a NGO. | CO2 | E | 20 |
|  |  |  |  |  |  |
| 3. |  | Explain the nuances of establishing NGOs. | CO3 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Highlight the differences in formation of a Trust and Society. | CO4 | C | 20 |
|  |  |  |  |  |  |
| 5. |  | Present the salient features of The Indian Trusts Act, 1882. | CO5 | A | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Chart the services rendered by the United Nations Children Fund (UNICEF) towards the Children in need of support. | CO1 | U | 20 |
|  |  |  |  |  |  |
| 7. |  | Annotate the advantages and disadvantages of the functioning of NGOs. | CO4 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Highlight some of the dedicated work of a few notable NGOs in India. | CO6 | C | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Compile the work of the Amnesty International towards protecting the Human Rights. | CO6 | R | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understanding about the nature and scope of ngo’s in the criminal justice process |
| CO2 | Critically analyse the various laws pertaining to the organization that works for the welfare of the society. |
| CO3 | Understand the concepts as well as the practices of ngo management. |
| CO4 | Understand how to strengthen the capacities to improve the functioning of an ngo. |
| CO5 | Understand the institutional and organizational framework, resource and capacity constraints, projects and program objectives, community needs and cultural context |
| CO6 | Apply theoretical knowledge to the practical issues. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 |  | 20 |  |  | 40 |
| CO2 |  |  |  |  | 20 |  | 20 |
| CO3 |  |  |  | 20 |  |  | 20 |
| CO4 |  |  |  | 20 |  | 20 | 40 |
| CO5 |  |  | 20 |  |  |  | 20 |
| CO6 | 20 |  |  |  |  | 20 | 40 |
| 20 20 20 60 20 40 | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20CR2028** | **Duration** | **3hrs** |
| **Course Title** | **DISASTER RISK MANAGEMENT** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define Disaster.  Jot down the causes of various disasters. | CO1 | U | 10 |
|  | b. | Illustrate three major manmade disasters that affected Indian Community. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | With a neat diagram, explain the stages of disaster management cycle quoting two suitable examples. | CO2 | U | 10 |
|  | b. | Explain the role of search and rescue teams in a high intensity earthquake hit area that led to the collapse of multi-storied buildings. | CO2 | A | 10 |
|  |  |  |  |  |  |
| 3. |  | i) Vividly explain the use of science and technology in disaster risk management.  ii) List the use of the equipment used in this field. | CO3 | An | 20 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Write a note in detail about the Sendai framework and its implementations. | CO3 | An | 10 |
|  | b. | Mention the SOPs to be followed while working in a Disaster struck area. | CO4 | A | 10 |
|  |  |  |  |  |  |
| 5. | a. | Victims of disasters are also victims of human rights violations – Justify. | CO5 | E | 10 |
|  | b. | Recall the services rendered by the NDRF during various National disasters’ | CO4 | E | 10 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Explain the institutional setup and the role of the Central government as well as the State government during disasters. | CO6 | U | 20 |
|  |  |  |  |  |  |
| 7. |  | Briefly explain the following:  i) Hot spots.   1. Hazards. 2. Risks. 3. Hail storm | CO2 | R | 20 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Classify different types of disasters with examples. | CO2 | U | 10 |
|  | b. | Give a picture of the ‘land slide disaster’, causes, mitigation measures.  Mention the do’s & don’ts to be observed during a landslide disaster. | CO4 | A | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Describe the primary rescue measures & provisions of relief to be followed while shifting the victims of natural disaster to rescue camps /shelter. | CO6 | C | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand the disaster that happens in the world |
| CO2 | Learn about national institute of disaster management and national disaster response force (NDRF) |
| CO3 | Understand the risk reduction steps taken at the time of disaster |
| CO4 | Ensure preparedness to face the disasters. |
| CO5 | Realize, what are the emergency responses to be taken by the national disaster management force |
| CO6 | Learn about the practical training process on disaster management. |

|  |  |  |  |  |  |  |  |
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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  |  |  |  | 20 |
| CO2 | 20 | 20 | 10 |  |  |  | 50 |
| CO3 |  |  |  | 30 |  |  | 30 |
| CO4 |  |  | 20 |  | 10 |  | 30 |
| CO5 |  |  |  |  | 10 |  | 10 |
| CO6 |  | 20 |  |  |  | 20 | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20CR2031** | **Duration** | **3hrs** |
| **Course Title** | **ABNORMAL PSYCHOLOGY** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Consolidate the thoughts of the ‘early Greek thinkers’ about the mental illness or wellbeing. | CO1 | U | 10 |
|  | b. | Describe the existence of Exorcism and witch craft that was used to treat mental illness, during the early medieval period. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Present an overview of the mental health hospital care in the 20th century. | CO1 | An | 10 |
|  | b. | Discuss the psychiatric classification by Kraepelin. | CO2 | E | 10 |
|  |  |  |  |  |  |
| 3. | a. | Analyze the reason behind the suicide attempts and suggest mitigation measures | CO2 | A | 10 |
|  | b. | Give an elaborate explanation of structure of personality – Id, Ego, Super Ego. | CO2 | C | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Give an overview of Humanistic theory of personality. | CO3 | E | 10 |
|  | b. | Present notes on the following with proper examples  **a**. Vicarious Learning **b**. Emotions | CO3 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain Maslow’s hierarchy of need. | CO4 | C | 10 |
|  | b. | Explore the salient features of humanistic Psychology | CO4 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Explain Carl Rogers’ Theory of Personality’ | CO4 | An | 10 |
|  | b. | Explain classical conditioning and its experiment. | CO5 | C | 10 |
|  |  |  |  |  |  |
| 7. | a. | Give a descriptive note about the ‘drug abuse’ and the withdrawal syndrome. | CO5 | E | 10 |
|  | b | Write short notes on a. Anxiety disorder b. Panic disorder | CO5 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Write short notes on a. Fusiform gyrus b. Abnormal behaviour | CO5 | U | 10 |
|  | b. | The various forms of 'mood disorder’ that occur disturb a person and his behaviour – substantiate. | CO5 | A | 10 |
| **PART – B (2 X 10 = 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. |  | Explain the therapies of psycho dynamic gender identity disorder models. | CO6 | U | 20 |

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | understand various concepts and types of abnormal behavior |
| CO2 | Remember its impact on criminal behavior and treatment |
| CO3 | define and discuss classification, diagnosis, and assessment of abnormal behaviors. |
| CO4 | understand the assessment techniques for abnormal behaviors. |
| CO5 | discuss and interpret abnormal behavior. |
| CO6 | apply theoretical knowledge to the practical issues |

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| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  | 10 |  | 10 | 40 |
| CO2 |  |  | 10 |  | 10 | 10 | 30 |
| CO3 |  | 10 |  |  | 10 |  | 20 |
| CO4 | 10 |  |  | 10 |  | 10 | 30 |
| CO5 |  |  | 10 | 10 | 10 | 10 | 40 |
| CO6 |  | 20 |  |  |  |  | 20 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20FS2002** | **Duration** | **3hrs** |
| **Course Title** | **CRIME AND SOCIETY** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define Crime. Explain the characteristic of crime in modern society. | CO1 | R | 10 |
|  | b. | Explain in detail about the labelling theory and Marxist perspective in crime. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | What do you mean by juvenile delinquency? Mention few crimes against children. | CO2 | R | 10 |
|  | b. | What are corporate crimes? Describe White Collar crimes. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Explain in detail about preventive theory and reformative theory in detail. | CO3 | U | 10 |
|  | b. | Mention in detail about the rehabilitation of prisoners. | CO3 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | What is the human rights perspective towards prisoners? | CO4 | A | 10 |
|  | b. | Explain the role of media in prevention of crime. | CO4 | A | 10 |
|  |  |  |  |  |  |
| 5. | a. | Enumerate the differences between probation and parole. | CO5 | R | 10 |
|  | b. | Enumerate the offences related to marriage. | CO5 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | List and explain the crimes against human rights. | CO2 | U | 10 |
|  | b. | Explain the different types of cybercrimes. | CO2 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Explain the nature, causes and features of terrorism. | CO1 | An | 10 |
|  | b. | Enumerate the law and acts related to environmental crimes. | CO2 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Explain in detail about Indian judicial hierarchy. | CO6 | A | 10 |
|  | b. | Explain in detail about the influence of politics in crime. | CO6 | A | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | What is IPC and CrPC? Give a brief description about each. | CO6 | R | 10 |
|  | b. | Explain the role of police in crime prevention. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Know the recent trends in criminology, changing profile of crime and criminals |
| CO2 | Understand the forms and recent trends in crime |
| CO3 | Learn the theories of Punishment and Prevention of crime |
| CO4 | Take up the professional roles of correctional agents in agencies of criminal justice administration |
| CO5 | Understand the social and governmental regulations with regard to crime |
| CO6 | Understand about Indian judicial system |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  | 10 |  |  | 30 |
| CO2 | 30 | 20 |  |  |  |  | 50 |
| CO3 |  | 20 |  |  |  |  | 20 |
| CO4 |  |  | 20 |  |  |  | 20 |
| CO5 | 10 |  |  | 10 |  |  | 20 |
| CO6 | 10 | 10 | 20 |  |  |  | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20FS2014** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC BIOLOGY AND SEROLOGY-I** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Describe the concept of Blood composition. | CO1 | R | 10 |
|  | b. | Write summary on Spermatogenesis. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Summarize the different forms of Blood cells. | CO2 | U | 10 |
|  | b. | Classify different tests for Blood. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Identify the given image. Explain and give the name of test which is particularly based on the result which has depicted in this image.  Takayama Test Online USA | www.formasup.fr | CO3 | A | 10 |
|  | b. | Elaborate preliminary tests for Blood. | CO3 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Blood Group Test = Procedure for Determination of Blood Group | Blood Group  Determination Test - YouTube   1. Tell the type of Blood group form above image. 2. What is agglutination? | CO4 | An | 10 |
|  | b. | Explain tests used for seminal fluid examination. | CO4 | An | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain the given image.   1. Give the name of test based on image given below. 2. Explain the test in detail. | CO5 | E | 10 |
|  | b. | 1. Select appropriate match:   1. Needle shape crystal a) Male reproductive system      1. Immediate Pink color b) Takayama 2. Preliminary test for Blood c) LMG 3. Seminiferous tubule d) Kastle Meyer test   2. Draw structure of Spermatozoa with appropriate captions. | CO5 | E | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Explain Antigen and antibody. | CO6 | U | 10 |
|  | b. | Explain impact and cast off blood stain pattern. | CO6 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Explain phadebas and creatinine test. | CO3 | R | 10 |
|  | b. | Explain starch iodine test for saliva detection. | CO2 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Summarize forensic significance of Blood stain pattern analysis. | CO5 | U | 10 |
|  | b. | Describe tests used for urine examination/detection. | CO5 | R | 10 |
| **PART – B (1 X 20 = 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain confirmatory tests for Blood. | CO4 | C | 10 |
|  | b. | Explain Florence test and microscopic examination of seminal fluid | CO2 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand importance of blood fluids in forensic science |
| CO2 | Understand the significance of forensic semen |
| CO3 | Understand the importance of other body fluids forensic science. |
| CO4 | Analyze genetic markers and fluid stain patterns |
| CO5 | Document crime scene |
| CO6 | Understand tests of biological fluid |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 | - | - | - | - | - | 20 |
| CO2 | - | 30 | - | - | - | - | 30 |
| CO3 | - | - | 20 | - | - | - | 20 |
| CO4 | - | - | - | 20 | - | 10 | 30 |
| CO5 | 10 | 10 | - | - | 20 | - | 40 |
| CO6 | 20 | 20 | - | - | - | - | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20FS2016** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC BALLISTICS** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Sketch a shotgun and explain the function of each part in detail. | CO1 | U | 10 |
|  | b. | Compare a rifled barrel and a smooth bore based on its function. | CO4 | A | 6 |
|  | c. | Interpret the properties of primer compounds for an efficient ignition process. | CO1 | A | 4 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Illustrate the factors such as lock time, ignition time, and barrel time that affect the internal ballistics of a firearm. | CO1 | U | 10 |
|  | b. | Determine the role of propellant in internal ballistics and evidence analysis. | CO4 | A | 6 |
|  | c. | Sketch the schematic diagram of the stock with the required dimensions of a rifle. | CO1 | A | 4 |
|  |  |  |  |  |  |
| 3. | a. | Determine the role of air resistance on the trajectory of a bullet. | CO2 | A | 14 |
|  | b. | Explain how initial velocity affects the range of a projectile and target. | CO6 | A | 6 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Differentiate between impression, imprint, and indentation, with examples that a forensic investigator can use to collect ballistic evidence. | CO2 | An | 14 |
|  | b. | Analyze the abrasion collar and tattooing effects with the help of a sketch | CO6 | An | 6 |
|  |  |  |  |  |  |
| 5. | a. | Compare bullets based on their shapes and include appropriate diagrams. | CO3 | U | 14 |
|  | b. | Compare wire-patched and paper-patched bullets based on design aspects and functions. | CO4 | An | 6 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Label the firing marks on a cartridge case in the given figure and explain the reasons for such firing marks.  A drawing of a piece of wood  Description automatically generated | CO3 | U | 14 |
|  | b. | Draw a diagram of a shotgun cartridge, label its parts, and identify the role of each part. | CO4 | R | 6 |
|  |  |  |  |  |  |
| 7. | a. | Describe the gunshot residue (GSR) left on a target when fired upon from varying ranges. | CO5 | U | 10 |
|  | b. | The examination and evaluation of GSR help solve several problems. Based on this, list the possible questions a forensic investigator can answer through GSR analysis. | CO4 | R | 6 |
|  | c. | Write a note on adhesive tape lifting of GSR from different surfaces. | CO5 | A | 4 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Discuss in detail the characteristics of improvised firearms and their disadvantages compared to standard firearms. | CO5 | U | 10 |
|  | b. | Analyze the methods adopted to collect evidence in the cases of country-made firearm shootings. | CO4 | An | 6 |
|  | c. | Interpret the role of pinfire in improvised firearms. | CO5 | A | 4 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Write a detailed note on entry and exit wound ballistics in the case of rifle shootings at different ranges. | CO6 | A | 14 |
|  | b. | With a neat diagram, differentiate between permanent and temporary wounds in terms of ballistic evidence. | CO6 | An | 6 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand the detailed classification of firearms. |
| CO2 | Learn types of ammunition and headstamp markings on ammunitions. |
| CO3 | Classify various kinds of firing marks. |
| CO4 | Know the types of firearm evidences |
| CO5 | Understand the mechanism of formation of gunshot residues |
| CO6 | Identify the nature of fireman injuries. |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 | 8 |  |  |  | 28 |
| CO2 |  |  | 14 | 14 |  |  | 28 |
| CO3 |  | 28 |  |  |  |  | 28 |
| CO4 | 12 |  | 12 | 12 |  |  | 36 |
| CO5 |  | 20 | 8 |  |  |  | 28 |
| CO6 |  |  | 20 | 12 |  |  | 32 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20FS2019** | **Duration** | **3hrs** |
| **Course Title** | **CYBER CRIMES AND CYBER FORENSICS** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Differentiate the various data storage methods with suitable examples. | CO1 | U | 10 |
|  | b. | Visualize the types of networks with suitable diagrams. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. |  | Explain the functions of memory and processor with suitable block diagrams. | CO1 | A | 20 |
|  |  |  |  |  |  |
| 3. | a. | Define data breach. Interpret the various phases and their possible impacts. | CO3 | R | 10 |
|  | b. | List down the reasons behind commissioning of computer crimes. | CO2 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Tabulate the features, operations, types of computer viruses and worms. | CO3 | R | 10 |
|  | b. | Analyze the threats that can be caused by the Trojan Horse. | CO2 | An | 10 |
|  |  |  |  |  |  |
| 5. |  | Examine the effects of hacking and phishing with a suitable example. | CO3 | A | 20 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Determine the necessity of cyber security in the national space. | CO3 | A | 10 |
|  | b. | Write the features of cyber terrorism with an example. | CO3 | A | 10 |
|  |  |  |  |  |  |
| 7. | a. | Identify the password-cracking tools existing in Windows and Linux operating systems with an explanation. | CO6 | R | 10 |
|  | b. | Illustrate the data forensics process with suitable example. | CO5 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Predict the various phases involved in seizing and handling of digital evidence. | CO4 | U | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. |  | Discuss the encryption and decryption techniques in detail. | CO6 | U | 20 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Know the principle of operation of computer hardware and accessories |
| CO2 | Understand the types of computer crimes |
| CO3 | Know crimes related to intellectual property rights, computer terrorism and hacking |
| CO4 | Understand the concept of collecting of magnetic data |
| CO5 | Know about extraction of information from the hard disk |
| CO6 | Understand the principle of restoration of deleted files, encryption and decryption methods |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| CO / BL | **Remember** | **Understand** | **Apply** | **Analyze** | **Evaluate** | **Create** | **Total** |
| CO1 | 10 | 10 | 20 | - | - | - | 40 |
| CO2 | 10 | - | - | 10 | - | - | 20 |
| CO3 | 20 | - | 40 | - | - | - | 60 |
| CO4 | - | 20 | - | - | - | - | 20 |
| CO5 | - | - | 10 | - | - | - | 10 |
| CO6 | 10 | 20 | - | - | - | - | 30 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS2020** | **Duration** | **3hrs** |
| **Course Title** | **FUNDAMENTALS OF FORENSIC PSYCHOLOGY** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define forensic psychology and explain its significance in criminal cases. | CO1 | R | 20 |
|  | b. | Describe the history of psychology and analyze its evolution over time, highlighting key theories and figures. | CO1 | U |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Discuss competency to stand trial and its assessment. | CO2 | U | 20 |
|  | b. | Explain Section 84 of the IPC. | CO2 | R |
|  |  |  |  |  |  |
| 3. | a. | Evaluate the implications of Section 84 of the IPC in the context of criminal responsibility. | CO3 | R | 20 |
|  | b. | Discuss personality and personality disorders, and analyze their impact on behavior and interpersonal relationships. | CO3 | U |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Explain juvenile delinquency. | CO4 | U | 20 |
|  | b. | Describe the theories of personality. | CO4 | U |
|  |  |  |  |  |  |
| 5. | a. | Define the concepts of ID, ego, and superego, and analyze their roles in shaping human behavior and personality according to psychoanalytic theory. | CO5 | A | 20 |
|  | b. | Describe behaviorism and its key principles in the context of psychology. | CO5 | R |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Discuss the humanistic approach to psychology and its significance in Uing human behavior. | O6 | R | 20 |
|  | b. | Discuss the psychoanalytic approach to psychology and its impact on mental processes. | CO6 | An |
|  |  |  |  |  |  |
| 7. | a. | Explain Narcoanalysis and the Polygraph. | CO5 | R | 20 |
|  | b. | Discuss the ethical issues in psychology. | CO5 | U |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Explain BEOS. | CO4 | R | 20 |
|  | b. | Describe Cluster A and Cluster B personality disorders. | CO5 | U |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Discuss the importance of forensic psychology. | CO6 | U | 20 |
|  | b. | Define the goals of psychology. | CO6 | R |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Overview of forensic psychology and its applications |
| CO2 | Explain legal aspects of forensic psychology |
| CO3 | Describe the significance of criminal profiling. |
| CO4 | Outline the importance of psychological assessment in gauging criminal behavior. |
| CO5 | Illustrate the tools and techniques required for detection of deception. |
| CO6 | Demonstrate the critical assessment of advanced forensic techniques like polygraphy, narcoanalysis and brain electrical oscillation signatures. |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| CO / BL | **Remember** | **Understand** | **Apply** | **Analyze** | **Evaluate** | **Create** | **Total** |
| CO1 | 10 | 20 |  |  |  |  | 30 |
| CO2 | 10 | 10 |  |  |  |  | 20 |
| CO3 | 20 | 10 |  |  |  |  | 30 |
| CO4 | 10 | 20 |  |  |  |  | 30 |
| CO5 | 30 | - | 20 |  |  |  | 50 |
| CO6 | - | - |  | 20 |  |  | 20 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20FS2021** | **Duration** | **3hrs** |
| **Course Title** | **CRIME SCENE INVESTIGATION** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Discuss various types and classification of crime with proper examples. | CO1 | R | 10 |
|  | b. | Explain types of crime scene with examples and its roles in investigations. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Explain any five databases in forensic science in detail. | CO2 | R | 10 |
|  | b. | Discuss the types of physical evidence and its significance. | CO2 | R | 10 |
|  |  |  |  |  |  |
| 3. | a. | What are the primary objectives of the initial responding officer at a crime scene? Describe the importance of documentation, including statements from victims, witnesses, and suspects. | CO3 | U | 10 |
|  | b. | State Locard's principle of exchange. How does the concept of Locard's principle of exchange apply to evidence collection at crime scenes? | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Identify the sketching method depicted above. Discuss various crime scene sketching methods including its procedure and limitations with diagrams. | CO4 | U | 10 |
|  | b. | Discuss various classification of evidence- direct, circumstantial, physical, corroborative, conclusive, trace, testimonial. | CO4 | R | 10 |
|  |  |  |  |  |  |
| 5. | a. | Discuss the following terms:   * Victim * Suspect * Witness * Judicial officer * Medico legal officer | CO5 | U | 10 |
|  | b. | Discuss the procedures involved in the collection, packaging, and preservation of physical evidence at crime scenes. | CO5 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Discuss the following terms:   * Mens rea * Felonies * Misdemeanor * Actus Reus * Infraction | CO1 | R | 10 |
|  | b. | What is the definition of search in the context of crime scene investigation? Discuss various search patterns, including the strip method, grid method, zone/quadrant method, spiral method, point-to-point method, and wheel method. How do these methods contribute to effective evidence collection? | CO4 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Explain the role and responsibilities of medico-legal experts, and judicial officers in crime scene management? | CO5 | U | 10 |
|  | b. | Describe the evolution of the Indian Penal Code (IPC) since its inception. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Discuss the forensic examination of fibers in detail. | CO6 | U | 10 |
|  | b. | Explain the significance of tool marks as physical evidence in criminal investigations. How these types of evidence are collected and preserved? | CO2 | U | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain the stages involved in crime scene reconstruction. | CO6 | U | 10 |
|  | b. | Explain the collection and preservation of biological evidence. Evaluate the challenges associated with it. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Know the reasons for committing crime and types of crime scenes. |
| CO2 | Understand the objectives of documentation and evidence classification |
| CO3 | Know the methods relevant to crime scene documentation |
| CO4 | Understand the methodology of collecting, packaging and preservation of evidences |
| CO5 | Understand the concepts of crime scene reconstruction |
| CO6 | Know about stages of crime scene reconstruction |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 40 |  |  |  |  |  | 40 |
| CO2 | 20 | 10 |  |  |  |  | 20 |
| CO3 | 10 | 10 |  |  |  |  | 20 |
| CO4 | 20 | 10 |  |  |  |  | 30 |
| CO5 |  | 30 |  |  |  |  | 30 |
| CO6 |  | 40 |  |  |  |  | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20FS2022** | **Duration** | **3hrs** |
| **Course Title** | **DNA TYPING** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Explain the structure of DNA with well labeled diagram. | CO1 | U | 10 |
|  | b. | Explain the differential extraction method for DNA with proper diagram. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Write a note on Single Nucleotide Polymorphism (SNP). | CO2 | U | 10 |
|  | b. | Describe the steps of Polymerase Chain Reaction (PCR) with well labeled diagram. | CO2 | U | 10 |
| 3. | a. | Explain the procedure for Restriction Fragment Length Polymorphism with the help of diagram. | CO3 | U | 10 |
|  | b. | Describe the characteristics and forensic significance of Short Tandem Repeats. | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Explain the process of mitochondrial DNA analysis. | CO4 | U | 10 |
|  | b. | Explain the role of nuclear DNA in paternity testing. | CO4 | A | 10 |
| 5. | a. | Forensics And DNA: How Genetics Can Help Solve Crimes –, 52% OFF  Identify the culprit by comparing the blood stain with the reference sample. | CO5 | An | 10 |
|  | b. | Justify your finding in the form of a detailed report based on the above observation table. (Provided in question 5.a) | CO5 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Explain collection and packaging of semen and hair samples for DNA analysis. | CO2 | A | 10 |
|  | b. | Explain the Slot blot assay for DNA quantification. | CO2 | A | 10 |
| 7. | a. | Explain the types of polymorphism. | CO3 | R | 10 |
|  | b. | Write a case study in which DNA was a major form of evidence. | CO3 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Describe the factors that are responsible for altering allele frequencies. | CO6 | A | 10 |
|  | b. | Categorize remains based on extent of decomposition. | CO6 | A | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Describe the Hardy Weinberg Principle along with its assumptions. | CO6 | U | 10 |
|  | b. | Explain the three laws proposed by Gregor Mendel. | CO6 | R | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | recognize the basic principle of DNA analysis |
| CO2 | apply the forensic significance of DNA typing |
| CO3 | understand the importance of short tandem repeats and restriction fragment length polymorphism  in DNA technique |
| CO4 | comprehend the principles of parentage testing |
| CO5 | write a detailed report on DNA typing |
| CO6 | analyse the probability determination in a population database |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 20 |  |  |  |  | 20 |
| CO2 |  | 20 | 20 |  |  |  | 40 |
| CO3 | 20 | 10 | 10 |  |  |  | 40 |
| CO4 |  | 10 | 10 |  |  |  | 20 |
| CO5 |  |  |  | 20 |  |  | 20 |
| CO6 | 10 | 10 | 20 |  |  |  | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20FS2023** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC MEDICINE** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define Inquest. Explain the types of inquest in detail. | CO1 | R | 10 |
|  | b. | Explain the definition, procedure and importance of recording dying declaration. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Explain the importance of Command post and maintaining a log book at the crime scene. | CO2 | U | 10 |
|  | b. | Describe the procedure for documenting the death scene. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Describe the methods for searching buried bodies. | CO3 | U | 10 |
|  | b. | Define Exhumation. Explain the objectives and procedure of exhumation. | CO3 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | What is testimonial evidence? Explain the factors affecting eye witness testimony. | CO4 | AN | 10 |
|  | b. | Illustrate the procedure for interviewing the witnesses. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain the cause of death, mechanism of death and manner of death with proper example. | CO5 | A | 10 |
|  | b. | Describe the stages of death and give its medico legal significance. | CO5 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Define lacerations. Explain its clinical findings and medico legal significance. | CO4 | R | 10 |
|  | b. | Describe the characteristics of entrance wounds caused by firearms. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 7. | a. | Describe the procedure for investigating a sexual offence. | CO4 | A | 10 |
|  | b. | Describe the post mortem findings in case of death by drowning. | CO5 | AN | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Describe the early signs of death. | CO6 | U | 10 |
|  | b. | Define Mummification. Explain the features and mechanism of mummification. | CO6 | U | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Describe the external changes seen in the tissues undergoing putrefaction. | CO6 | U | 10 |
|  | b. | Describe Adipocere. Give the mechanism of Adipocere formation. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Do the duties of the first responding officer who receives a call on homicide or suicide case |
| CO2 | Practice the steps involved in processing the death scene |
| CO3 | Explore the crime scene management in death cases |
| CO4 | Understand the process of collecting and documenting the evidences in death cases |
| CO5 | Realise the importance of autopsy |
| CO6 | Understand the changes happening after death |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  |  |  |  | 20 |
| CO2 |  | 20 |  |  |  |  | 20 |
| CO3 |  | 20 |  |  |  |  | 20 |
| CO4 | 10 | 20 | 10 | 10 |  |  | 50 |
| CO5 |  | 10 | 10 | 10 |  |  | 30 |
| CO6 |  | 40 |  |  |  |  | 40 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS2024** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC ANTHROPOLOGY AND ODONTOLOGY** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define Forensic Anthropology and its forensic significance. | CO1 | R | 10 |
|  | b. | Explain the division of the Human Skeletal System into Axial and Appendicular bones. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Analyze the Structure of the Skull bone with a diagram. | CO2 | An | 10 |
|  | b. | Examine the structure of the pelvic girdle with a diagram. | CO2 | An | 10 |
|  |  |  |  |  |  |
| 3. | a. | Summarize the composition of bone. | CO3 | U | 10 |
|  | b. | Discuss the parameters for estimating an individual's age from skeletal remains. | CO3 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Define facial reconstruction and explain its method of 2D and 3D reconstruction. | CO4 | R | 10 |
|  | b. | Explain facial superimposition and its various types. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Define Forensic Odontology and its forensic significance along with a case study. | CO5 | R | 10 |
|  | b. | Enlist and describe the types of teeth. | CO5 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Write a note on the human skeletal system and its functions. | CO1 | R | 10 |
|  | b. | Examine the structure of a typical bone. | CO1 | An | 10 |
|  |  |  |  |  |  |
| 7. | a. | Examine the sutures in the skull and their various types with the diagram. | CO2 | An | 10 |
|  | b. | Explain the structure of the Vertebral Column with a labeled diagram. | CO2 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Describe the different types of bones found in the human body. | CO6 | R | 10 |
|  | b. | Outline the distinguishing characteristics of teeth across different racial populations. | CO6 | An | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Distinguish between male and female Skull bone. | CO6 | An | 10 |
|  | b. | Distinguish between male and female Pelvic Girdle bone. | CO6 | An | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Know the importance of skeletal system |
| CO2 | Understand the anatomy of different bones |
| CO3 | Understand the chemistry of bones and biological profiling |
| CO4 | Know the facial anatomy of humans and facial superimposition |
| CO5 | Know about forensic odontology and recovery of forensic evidence from graves |
| CO6 | Understand skeletal variation |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 | 10 |  | 10 |  |  | 40 |
| CO2 |  | 10 |  | 30 |  |  | 40 |
| CO3 |  | 20 |  |  |  |  | 20 |
| CO4 | 10 | 10 |  |  |  |  | 20 |
| CO5 | 20 |  |  |  |  |  | 20 |
| CO6 | 10 |  |  | 30 |  |  | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS2026** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC BIOLOGY AND SEROLOGY - II** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Explain the Second law of Mendel. | CO1 | U | 10 |
|  | b. | Examine complete and incomplete dominance | CO1 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Enlist the types of blood stain patterns | CO2 | R | 10 |
|  | b. | Explain Angle of impact and area of convergence. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Outline the structure of hair and its growth cycle. | CO3 | An | 10 |
|  | b. | Distinguish human hair from animal hair. | CO3 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Discuss the ABO blood typing system in humans. | CO4 | U | 10 |
|  | b. | Explain Rh and various blood typing systems in humans. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Define Blood, properties and its composition. | CO5 | R | 10 |
|  | b. | Explain the following terms in context with BPA.   1. Surface tension 2. Viscosity 3. Capillary action 4. Speed 5. Gravity | CO5 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Illustrate examination of fibers. | CO6 | U | 10 |
|  | b. | Explain the growth cycle of hair. | CO6 | U | 10 |
|  |  |  |  |  |  |
| 7. | a. | Define diatoms and elaborate its types. | CO4 | R | 10 |
|  | b. | Illustrate the collection of entomological evidence. | CO4 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Explain the sequence of insect colonization. | CO6 | U | 10 |
|  | b. | Elaborate the collection of entomological evidence. | CO6 | U | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain the life cycle of insect of Diptera order. | CO6 | U | 10 |
|  | b. | Explain the law of dominance of mendelian genetics. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | To know about the measures of genetic variation |
| CO2 | Determination of species of origin-ring test |
| CO3 | Testing procedures and factor effecting |
| CO4 | Human blood group systems |
| CO5 | New approaches in bloodstain grouping |
| CO6 | Non-genetic approaches to individualization |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 |  | 10 |  | 10 |  |  | 20 |
| CO2 | 10 | 10 |  |  |  |  | 20 |
| CO3 |  |  |  | 20 |  |  | 20 |
| CO4 | 10 | 30 |  |  |  |  | 40 |
| CO5 | 10 | 10 |  |  |  |  | 20 |
| CO6 |  | 60 |  |  |  |  | 60 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS2028** | **Duration** | **3hrs** |
| **Course Title** | **FOUNDATION COURSE ON COMPUTER FUNDAMENTALS AND OFFICE** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Explain the steps of mail merge in Microsoft word. | CO1 | U | 10 |
|  | b. | Describe cell basics in MS excel spreadsheet. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Discuss the steps involved in applying the slide themes in Microsoft PowerPoint. | CO1 | U | 10 |
|  | b. | Illustrate packet switching and protocols of internet. | CO2 | A | 10 |
|  |  |  |  |  |  |
| 3. | a. | Explain any two looping statements with suitable C programs. | CO3 | U | 10 |
|  | b. | Describe the arithmetic and relational operators with an example program. | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Write a C program to read weekday number and print weekday name using switch case. | CO3 | A | 10 |
|  | b. | Differentiate between variables and constants with suitable examples. | CO3 | An | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain single-dimensional array with a suitable example. | CO4 | U | 10 |
|  | b. | Construct C programs for string concatenation, string copy and string reverse functions. | CO4 | C | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Write a C program to illustrate passing array in function. | CO4 | A | 10 |
|  | b. | Illustrate user-defined functions in C with examples. | CO4 | An | 10 |
|  |  |  |  |  |  |
| 7. | a. | Explain bitfields with a suitable example. | CO5 | U | 10 |
|  | b. | Enumerate the advantages and disadvantages of MAN. | CO2 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Summarize self-referential structures in C programming. | CO5 | U | 10 |
|  | b. | Enumerate structure declaration and initialization with an example. | CO5 | R | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Summarize passing functions to pointers with a suitable C program. | CO6 | U | 10 |
|  | b. | Describe calloc() method of dynamic memory allocation. | CO6 | R | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Analyse the fundamentals of MS Office. |
| CO2 | Utilize the Internet. |
| CO3 | Understand the fundamentals of C Programming. |
| CO4 | Know the basic concepts of arrays and functions in C. |
| CO5 | Apply the concepts of structures in C programming. |
| CO6 | Understand the concepts of pointers. |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 20 | - | - | - | - | 30 |
| CO2 | 10 | - | 10 | - | - | - | 20 |
| CO3 | 10 | 10 | 10 | 10 | - | - | 40 |
| CO4 | - | 10 | 10 | 10 | - | 10 | 40 |
| CO5 | 10 | 20 | - | - | - | - | 30 |
| CO6 | 10 | 10 | - | - | - | - | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS3002** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC PHYSICS AND ADVANCED BALLISTICS** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Describe the steps to be followed in investigating the automobile accident with emphasis on skid marks. | CO1 | U | 10 |
|  | b. | Discuss the role of forensic structural engineer in a crime investigation and give an overview of the forensic report. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | List the causes of road accidents and discuss any two in detail. | CO1 | R | 10 |
|  | b. | Explain the steps involved in the investigation of traffic collision. | CO1 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Compare the types of blood stains and mention its significance in forensic investigation. | CO2 | An | 10 |
|  | b. | Analyze the blood stain pattern with respect to its shape, location, and distribution. | CO2 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | List the various terminologies used in blood pattern analysis and give the significance of point of origin and point of convergence. | CO2 | R | 10 |
|  | b. | Discuss the impact spatter and the mechanisms involved with respect to blood stains. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Illustrate the types of glasses and their composition with emphasize on its importance in a crime scene. | CO3 | A | 10 |
|  | b. | Identify the different types of glass fractures related to forensic ballistics. | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Analyze the different types of paints with respect to their composition. | CO3 | An | 10 |
|  | b. | Give a detailed note on the forensic examination of fiber analysis with examples. | CO3 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Compare the cartridges of a rifle and shotgun. | CO4 | An | 10 |
|  | b. | Discuss the factors affecting internal ballistics. | CO4 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Compare impression, indentation and striation marks with examples. | CO4 | An | 10 |
|  | b. | Illustrate the making of improvised firearm and the role of its design aspects in forensic investigation. | CO4 | A | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Discuss the factors like trajectory, angle of fall, and other ballistic parameters that are associated with external ballistics. | CO5 | U | 10 |
|  | b. | Give a brief note on wound ballistics or the effect of projectile hitting the target with schematic sketches. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand the examination of road accident |
| CO2 | Understand the physics of blood |
| CO3 | Analyze various types of material |
| CO4 | Classify the various types of fire arms |
| CO5 | Distinguish between, internal, external and terminal ballistics |
| CO6 | Summarize the procedure of writing ballistic report |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 30 |  |  |  |  | 40 |
| CO2 | 10 | 10 |  | 20 |  |  | 40 |
| CO3 | 20 |  | 10 | 10 |  |  | 40 |
| CO4 |  | 10 | 10 | 20 |  |  | 40 |
| CO5 |  | 10 |  |  |  |  | 10 |
| CO6 |  | 10 |  |  |  |  | 10 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS3004** | **Duration** | **3hrs** |
| **Course Title** | **ADVANCED QUESTIONED DOCUMENTS** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. |  | What are documents? Describe in detail about the basic tools for forensic document examination. | CO1 | R | 20 |
|  |  | **(OR)** |  |  |  |
| 2. |  | What are the purposes of seal and stamps? Explain in detail about the examination of seal impressions. | CO2 | U | 20 |
|  |  |  |  |  |  |
| 3. |  | What do you mean by forgery? What are the various types of forgeries and explain in detail about their detection techniques. | CO3 | A | 20 |
|  |  | **(OR)** |  |  |  |
| 4. |  | Describe in detail about the examination of counterfeit currency notes. | CO4 | An | 20 |
|  |  |  |  |  |  |
| 5. |  | Explain in detail about the methods used in determination of age of documents. | CO5 | U | 20 |
|  |  | **(OR)** |  |  |  |
| 6. |  | Describe the application and principles of following analytical instrumentation used in document examination:   1. VSC 2. TLC 3. Microscopes | CO6 | A | 20 |
|  |  |  |  |  |  |
| 7. |  | What are the different types of documents? Describe various writing standards and how they are collected. | CO2 | R | 20 |
|  |  | **(OR)** |  |  |  |
| 8. |  | Discuss the various components of Forensic Reports. Explain in detail about the preparation of forensic report. | CO6 | U | 20 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | What are the general and individual characteristics of handwriting? | CO6 | An | 10 |
|  | b. | Discuss the challenges that may arise while giving testimony in court. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand the various types of documents |
| CO2 | Compare the questioned documents with standards |
| CO3 | Identify the different types of forgery in the documents |
| CO4 | Apply various method to analyze questioned documents |
| CO5 | Analyze the questioned documents of various types |
| CO6 | Prepare the report |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 |  |  |  |  |  | 20 |
| CO2 | 20 | 20 |  |  |  |  | 40 |
| CO3 |  |  | 20 |  |  |  | 20 |
| CO4 |  |  |  | 20 |  |  | 20 |
| CO5 |  | 20 |  |  |  |  | 20 |
| CO6 |  | 30 | 20 | 10 |  |  | 60 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS3005** | **Duration** | **3hrs** |
| **Course Title** | **FINGER PRINTS AND OTHER IMPRESSIONS** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define fingerprints and explain history of fingerprints. | CO1 | R | 10 |
|  | b. | State the concept of poroscopy. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Classify fingerprints and interpret **“MINUTIAE”** as an individual characteristic. | CO2 | U | 10 |
|  | b. | Summarize the collection process for fingerprint evidence. Quote few examples of Preservation methods used while collecting. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Identify **pattern** and find out at least **16 minutiae** from the image given below and **define each minutia** properly. | CO3 | A | 10 |
|  | b. | Select any one method of fingerprint development from below and give your comment. Which stands better and why?  i)Iodine method  ii)Super Glue method | CO3 | A | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Compare the footwear impressions and fingerprint impressions. Give your opinion which evidence will stand better in court as evidence. | CO4 | An | 10 |
|  | b. | Distinguish between arch and loop patterns of fingerprints. Quote one case study in regard to fingerprint evidence. | CO4 | An | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain the given image. What information you can derive out of the image. | CO5 | E | 10 |
|  | b. | Select appropriate match:   1. 92 y a.Radial Construction 2. R b.Date of Manufacturing of Tire 3. AA c.Load Index 4. 4117 d.Traction   Define **92Y, R and 4117.** | CO5 | E | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Explain Suzuki and Tsuchihashi classification of lip prints. | CO6 | U | 10 |
|  | b. | Define bite mark and explain about the Ted Bundy case. | CO6 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Define tire impressions and examination of tire marks. | CO3 | R | 10 |
|  | b. | Explain different chemical methods of fingerprint development. | CO2 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Summarize the significance of tread wear indicator and also discuss OE tires and replacement tires. | CO5 | U | 10 |
|  | b. | How to enhance fingerprints contaminated with blood and grease? | CO5 | R | 10 |
| **PART – B (1 X 20 = 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Discuss different lifting methods of 2D footwear impressions. | CO4 | C | 10 |
|  | b. | Explain collection and preservation of fingerprint with powder method. | CO2 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Understand the various elements of fingerprints |
| CO2 | Understand the types of Fingerprints |
| CO3 | Analyze footwear reprints |
| CO4 | Apply various methods to analyze tire reprints |
| CO5 | Analyze the Lip reprints |
| CO6 | Analyze the bite marks |

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| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 | - | - | - | - | - | 20 |
| CO2 | - | 40 | - | - | - | - | 40 |
| CO3 | 10 | - | 20 | - | - | - | 30 |
| CO4 | - | - | - | 20 | - | 10 | 30 |
| CO5 | 10 | 10 | - | - | 20 | - | 40 |
| CO6 | 10 | 10 | - | - | - | - | 20 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS3011** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC SEROLOGY AND MOLECULAR GENETICS** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Explain the composition of blood. | CO1 | U | 10 |
|  | b. | Discuss the Collection method of blood. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Explain ABO blood group typing. | CO2 | U | 10 |
|  | b. | Illustrate Rh blood group typing. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Examine PCR technique in detail. | CO3 | An | 10 |
|  | b. | Analyze RFLP analysis technique. | CO3 | An | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Outline the Hardy Weinberg law | CO4 | An | 10 |
|  | b. | Distinguish between Mitochondrial and Nuclear DNA. | CO4 | An | 10 |
|  |  |  |  |  |  |
| 5. | a. | Write a note on DNA databank. | CO5 | R | 10 |
|  | b. | Explain the forensic significance of Bioinformatics. | CO5 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Enlist the collection method of saliva. | CO1 | R | 10 |
|  | b. | Explain the Preliminary examination of blood. | CO1 | U | 10 |
|  |  |  |  |  |  |
| 7. | a. | Describe the confirmatory examination of blood. | CO1 | R | 10 |
|  | b. | Explain the concept of secretor and non-secretor. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Write a note on Genomics. | CO6 | R | 10 |
|  | b. | Explain Proteomics. | CO6 | U | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain Bioinformatic methods for forensic DNA analysis. | CO6 | U | 10 |
|  | b. | Explain MN blood group typing. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Recognize the basic principle of Forensic Serology |
| CO2 | Classify the biological stains |
| CO3 | Understand about serogenic markers |
| CO4 | Summarize about DNA typing and its forensic significance |
| CO5 | Interpret the DNA typing results |
| CO6 | Understand the basics of bioinformatics |

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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 | 40 |  |  |  |  | 60 |
| CO2 |  | 20 |  |  |  |  | 20 |
| CO3 |  |  |  | 20 |  |  | 20 |
| CO4 |  |  |  | 20 |  |  | 20 |
| CO5 | 10 | 10 |  |  |  |  | 20 |
| CO6 | 10 | 30 |  |  |  |  | 40 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| --- | --- | --- | --- |
| **Course Code** | **20FS3012** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC PHONETICS, VOICE ANALYSIS AND SPEAKER RECOGNITION** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Describe Speech Production in humans. | CO1 | U | 10 |
|  | b. | Define Phonetics, articulatory phonetics, and Forensic Linguistics. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Describe the collection of evidence in the case of forensic phonetics. | CO2 | R | 10 |
|  | b. | Explain the significance of forensic linguistics in Forensic investigation. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Explain the factors affecting voice identification. | CO3 | U | 10 |
|  | b. | Name a few computerized software used for voice analysis and describe author identification in the suicide note. | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Explain the ASR method in detail. | CO4 | U | 10 |
|  | b. | Illustrate steps of Speaker Recognition identification. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain the type of evidence encountered in Forensic phonetics cases. Explain each evidence and its Forensic analysis. | CO5 | U | 10 |
|  | b. | Name a few storage media used for the collection of evidence in case of voice evidence also describe the collection of voice evidence in detail. | CO5 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Differentiate between written and voice/oral evidence in detail. List a few examples of written and voice/oral evidence. | CO6 | An | 10 |
|  | b. | Explain the speech production mechanism. | CO6 | U | 10 |
|  |  |  |  |  |  |
| 7. | a. | Distinguish between Speaker identification and authentication of tape recording. | CO5 | An | 10 |
|  | b. | Define speech enhancement and speech decoding. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Explain types of evidence and types of Psycholinguistics forensic texts. | CO2 | U | 10 |
|  | b. | Explain Forensic voice comparison and features that are commonly analyzed in forensic phonetics. | CO4 | U | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain the significance of forensic phonetics and voice analysis and define authorship. | CO6 | U | 10 |
|  | b. | Explain Voice Identification by the Aural/Spectrographic Method | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Recognize the importance of phonetics |
| CO2 | Understand the basics of psycholinguistics |
| CO3 | Understand the methods involved in voice analysis |
| CO4 | Summarize the various types of speaker recognition |
| CO5 | Understand the methods involved in automatic speaker recognition |
| CO6 | Realize the application of voice analysis in forensic science |

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| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| CO / BL | **Remember** | **Understand** | **Apply** | **Analyze** | **Evaluate** | **Create** | **Total** |
| CO1 | 20 | 10 |  |  |  |  |  |
| CO2 | 10 | 20 |  |  |  |  |  |
| CO3 | 10 | 10 |  |  |  |  |  |
| CO4 | 00 | 30 |  |  |  |  |  |
| CO5 | 10 | 10 |  | 10 |  |  |  |
| CO6 | 00 | 30 |  | 10 |  |  |  |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **20FS3017** | **Duration** | **3hrs** |
| **Course Title** | **MEDICAL JURISPRUDENCE** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Define inquest and expound on its various types. | CO1 | R | 10 |
|  | b. | Explain the kinds of witnesses and elucidate the rules for giving evidence. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Elaborate on the medico-legal significance of occupational and tattoo marks. | CO2 | U | 10 |
|  | b. | Describe footprints and outline their advantages in forensic analysis. | CO2 | R | 10 |
|  |  |  |  |  |  |
| 3. | a. | Define autopsy and explain its various types. | CO3 | R | 10 |
|  | b. | Explain the process of exhumation and its relevance in post-mortem examination. | CO3 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Define wounds and identify their various types. | CO4 | R | 10 |
|  | b. | Assess the forensic importance of wounds in various medico-legal contexts. | CO4 | E | 10 |
|  |  |  |  |  |  |
| 5. | a. | Define Death and list the modes of death including coma, syncope, and asphyxia. | CO5 | R | 10 |
|  | b. | Describe the immediate and early signs/changes after death. | CO5 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Differentiate between Medical Certificates and Medico-legal Reports. | CO1 | An | 10 |
|  | b. | Describe the processes of Examination-in-Chief, Cross-Examination, and Re-examination. | CO1 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Distinguish between a dying declaration and a dying deposition. | CO1 | An | 10 |
|  | b. | Evaluate the significance of viscera and describe methods for its preservation during post-mortem examination. | CO3 | E | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Distinguish between post-mortem and antemortem wounds. | CO6 | An | 10 |
|  | b. | Provide a detailed explanation of Rigor Mortis. | CO6 | U | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Explain the forensic significance of autopsy examination. | CO6 | U | 10 |
|  | b. | Describe the later changes that occur after death. | CO6 | U | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Know about various legal procedures |
| CO2 | Know about the parameters contributing to personal identity |
| CO3 | Understand the importance of post-mortem examination |
| CO4 | Know about wounds |
| CO5 | Understand the modes of death |
| CO6 | Acquire knowledge to estimate the time since death |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 20 | 10 |  | 20 |  |  | 50 |
| CO2 | 10 | 10 |  |  |  |  | 20 |
| CO3 | 10 | 10 |  |  | 10 |  | 30 |
| CO4 | 10 |  |  |  | 10 |  | 20 |
| CO5 | 20 |  |  |  |  |  | 20 |
| CO6 |  | 30 |  | 10 |  |  | 40 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **22FS2001** | **Duration** | **3hrs** |
| **Course Title** | **LABORATORY MANAGEMENT AND SAFETY** | **Max. Marks** | **100** |

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| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Discuss the classification of analytical chemical standards and providing an example. | CO1 | U | 10 |
|  | b. | Explain the purity substances and common chemical grade. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Explain the key features of laboratory quality management systems. | CO3 | A | 10 |
|  | b. | Describe the importance of ISO 9000 series of standards. | CO3 | A | 10 |
|  |  |  |  |  |  |
| 3. | a. | Discuss the scope of NABL guidelines for accreditation of laboratories. | CO2 | A | 10 |
|  | b. | What is quality management system? Explain the benefits of quality management system. | CO3 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Explain the guidelines of laboratory waste management. | CO4 | U | 10 |
|  | b. | Discuss the standard operating procedure guidelines for different classes of waste disposal. | CO4 | A | 10 |
|  |  |  |  |  |  |
| 5. | a. | What are the different types of LIMS? Explain. | CO5 | R | 10 |
|  | b. | Discuss the different stages of system development life cycle of LIMS and strategic design of LIMS. | CO5 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Describe the significance of evaluation and validation of LIMS | CO4 | An | 10 |
|  | b. | Discuss the following   1. Reference materials 2. Certified reference materials 3. Dry and Wet laboratory | CO4 | U | 10 |
|  |  |  |  |  |  |
| 7. | a. | Explain the advantages of accreditation for laboratories. | CO4 | An | 10 |
|  | b. | Describe the following   1. Record management 2. Importance of records 3. ISO 14000 series of standards | CO4 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Explain the role of ISO to improve a laboratory quality management system. | CO6 | A | 10 |
|  | b. | Describe the risk assessment of chemical hazards. | CO1 | An | 10 |
| **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Write the laboratory safety rules. | CO6 | U | 10 |
|  | b. | Elaborate the storage facilities of chemical hazards. | CO6 | An | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Summarize various chemical standards |
| CO2 | Summarize various biological standards |
| CO3 | Understand about the quality management systems |
| CO4 | Realize the importance of Laboratory Management |
| CO5 | Understand Laboratory Information Management system |
| CO6 | Apply the steps to maintain Laboratory safety |

|  |  |  |  |  |  |  |  |
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| **Assessment Pattern as per Bloom’s Level** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | - | 20 | - | 10 | - | - | 30 |
| CO2 | - | - | 10 | - | - | - | 10 |
| CO3 | - | 10 | 20 | - | - | - | 30 |
| CO4 | - | 30 | 10 | 20 | - | - | 60 |
| CO5 | 10 | 10 | - | - | - | - | 20 |
| CO6 | - | 10 | 10 | 10 | - | - | 30 |
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**END SEMESTER EXAMINATION – NOV / DEC 2024**

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| **Course Code** | **22FS2002** | **Duration** | **3hrs** |
| **Course Title** | **INSTRUMENTAL METHODS IN BIOLOGY** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Illustrate the process involved in the cell culture of animals. | CO1 | U | 10 |
|  | b. | Define physiological solutions, their types and factors contributing to the formulation of an ideal physiological solution. | CO1 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Explain the types of sedimentation. | CO2 | U | 10 |
|  | b. | Explain the principle behind the centrifugation technique. | CO2 | U | 10 |
|  |  |  |  |  |  |
| 3. | a. | Explain the principle and working of the UV-vis spectroscopy method for protein assay. | CO3 | U | 10 |
|  | b. | Write a note on the Immunochemical method and TLC for protein assay | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Explain the process of Monoclonal antibody production. | CO4 | U | 10 |
|  | b. | Explain Radioimmunoassay. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Describe the cloning procedure in molecular biology. | CO5 | R | 10 |
|  | b. | Explain the method for isolating specific nucleic acid sequences. | CO5 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Explain Enzymes utilized in cloning procedure. | CO6 | U | 10 |
|  | b. | Write a note on Gene libraries. | CO6 | R | 10 |
|  |  |  |  |  |  |
| 7. | a. | Explain culture media, its types and their roles in fostering microbial growth. | CO1 | U | 10 |
|  | b. | Explain natural media, their characteristics and their role in supporting the growth of microorganisms. | CO1 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Write a note on ELISA. | CO4 | R | 10 |
|  | b. | Explain the Double Immunodiffusion method. | CO4 | U | 10 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PART – B (1 X 20 = 20 MARKS)**  **COMPULSORY QUESTION** | | | | | |
| 9. | a. | Write a note on- cDNA. | CO6 | R | 10 |
|  | b. | Differentiate between genomic library and cDNA library. | CO6 | An | 10 |

**CO** – COURSE OUTCOME **BL** – BLOOM’S LEVEL **M** – MARKS ALLOTTED

|  |  |
| --- | --- |
|  | **COURSE OUTCOMES** |
| CO1 | Demonstrate the basic techniques used in microbiology. |
| CO2 | Summarize the principles of centrifugation techniques. |
| CO3 | Review the techniques used in biochemistry. |
| CO4 | Recall the principles of immunoassays |
| CO5 | Express the importance of cloning procedures. |
| CO6 | Analyze the methods involved in specific nucleic acid sequences. |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 30 |  |  |  |  | 40 |
| CO2 |  | 20 |  |  |  |  | 20 |
| CO3 | 10 | 10 |  |  |  |  | 20 |
| CO4 | 10 | 30 |  |  |  |  | 40 |
| CO5 | 10 | 10 |  |  |  |  | 20 |
| CO6 | 20 | 10 |  | 10 |  |  | 40 |
|  | | | | | | | **180** |

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**END SEMESTER EXAMINATION – NOV/DEC 2024**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **20FS3003** | **Duration** | **3hrs** |
| **Course Title** | **FORENSIC BIOLOGY** | **Max. Marks** | **100** |

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| --- | --- | --- | --- | --- | --- |
| **Q.**  **No.** | **Questions** | | **CO** | **BL** | **M** |
| **PART – A (4 X 20 = 80 MARKS)**  **(Answer all the Questions)** | | | | | |
| 1. | a. | Explain the role of anthropology in forensics. | CO1 | R | 10 |
|  | b. | List the components of blood and their biological as well as forensic  significance. | CO2 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 2. | a. | Describe the application of diatoms in forensics and their significance. | CO1 | U | 10 |
|  | b. | Explain the role of semen in forensic investigations and the methods used  for analysis. | CO2 | R | 10 |
|  |  |  |  |  |  |
| 3. | a. | Write a note on wood and their forensic significance. | CO3 | U | 10 |
|  | b. | Differentiate between human hair based on their location in body and race. | CO4 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 4. | a. | Give a detailed note on preliminary and confirmatory examination of blood. | CO2 | R | 10 |
|  | b. | Describe Wildlife Protection Act and CITES in the wildlife forensic. | CO5 | U | 10 |
|  |  |  |  |  |  |
| 5. | a. | Explain the role of odontology in human identification. | CO3 | U | 10 |
|  | b. | Describe the structure of hair and importance of medullary index | CO4 | U | 10 |
|  |  | **(OR)** |  |  |  |
| 6. | a. | Discuss analysis of Vaginal blood. | CO2 | U | 10 |
|  | b. | Classify fiber based on their origin. | CO4 | U | 10 |
|  |  |  |  |  |  |
| 7. | a. | Illustrate the stages of decomposition of body based on entomological  evidences. | CO3 | U | 10 |
|  | b. | Explain the tools used for facial reconstruction. | CO3 | R | 10 |
|  |  | **(OR)** |  |  |  |
| 8. | a. | Differentiate between male and female based on skeletal bones. | CO6 | U | 10 |
|  | b. | Discuss the case study on bioterrorism. | CO6 | U | 10 |
| **PART – B (1 X 20 = 20 MARKS) COMPULSORY QUESTION** | | | | | |
| 9. | a. | Summarize the methods for investigation in microbial forensics. | CO6 | U | 10 |
|  | b. | Discuss the different agents used historically as bioweapons and steps taken  to eradicate them. | CO6 | U | 10 |

|  |  |  |  |  |  |  |  |
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| **Assessment Pattern as per Bloom’s Taxonomy** | | | | | | | |
| **CO / BL** | **R** | **U** | **A** | **An** | **E** | **C** | **Total** |
| CO1 | 10 | 10 |  |  |  |  | 20 |
| CO2 | 10 | 30 |  |  |  |  | 40 |
| CO3 | 10 | 30 |  |  |  |  | 40 |
| CO4 |  | 30 |  |  |  |  | 30 |
| CO5 |  | 10 |  |  |  |  | 10 |
| CO6 |  | 40 |  |  |  |  | 40 |
|  | | | | | | | **180** |