

forensic final examination question Updated Version

Forensic final examination question is a crucial component in the education and certification process for aspiring forensic scientists, crime scene investigators, and forensic analysts. These questions serve as comprehensive assessments designed to evaluate a candidate's knowledge, analytical skills, and practical understanding of forensic science principles and procedures. Preparing effectively for these questions is essential for success, as they often determine whether a candidate is qualified to operate in real-world forensic environments. This article explores the nature of forensic final examination questions, offering insights into their structure, common topics, preparation strategies, and best practices for answering them confidently.

Understanding the Forensic Final Examination Question

Definition and Purpose

A forensic final examination question is a formal assessment posed at the conclusion of a forensic science course, training program, or certification process. Its primary purpose is to verify that the candidate has acquired the necessary theoretical knowledge and practical skills to perform forensic analysis effectively. These questions typically encompass a broad range of topics, requiring candidates to demonstrate critical thinking, application of scientific principles, and problem-solving abilities.

Format and Types of Questions

Forensic final exams are usually structured to include various question formats, such as:

- **Multiple Choice Questions (MCQs):** Test knowledge of key concepts and terminology.
- **Short Answer Questions:** Require concise explanations of forensic procedures or principles.
- **Case Study Analyses:** Present real or hypothetical scenarios where candidates must apply forensic principles to analyze evidence or suggest investigative steps.
- **Essay Questions:** Encourage detailed discussion of forensic topics, theories, or methodologies.
- **Practical or Laboratory-Based Questions:** Involve interpreting data, photographs, or lab results, often with an emphasis on critical analysis.

Understanding the variety of question types helps candidates tailor their study approach and

develop a well-rounded skill set.

Common Topics Covered in Forensic Final Examination Questions

1. Evidence Collection and Preservation

This fundamental area tests knowledge of proper techniques for gathering evidence at crime scenes, including:

- Chain of custody procedures
- Contamination prevention
- Packaging and storage best practices

2. Crime Scene Investigation

Questions may focus on:

- Scene documentation methods
- Sketching and photographing evidence
- Reconstruction of crime scenes

3. Forensic Biology and DNA Analysis

Candidates are often tested on:

- DNA extraction and quantification
- Polymerase Chain Reaction (PCR)
- Profile comparison and database utilization

4. Fingerprint Analysis

Topics include:

- Fingerprint development techniques
- Pattern types and minutiae analysis
- Comparison and identification procedures

5. Trace Evidence Analysis

This covers materials such as fibers, hair, glass, and soil, with questions on:

- Microscopic examination
- Chemical testing methods
- Interpretation of findings

6. Toxicology and Drug Analysis

Candidates should be familiar with:

- Sample collection protocols
- Screening and confirmatory tests
- Legal considerations and interpretation

7. Forensic Toxicology and Pharmacology

Understanding drug interactions, metabolism, and poisoning cases.

8. Legal and Ethical Considerations

Questions may assess knowledge of:

- Legal admissibility of evidence
- Expert witness responsibilities
- Ethical dilemmas in forensic practice

Strategies for Preparing for Forensic Final Examination Questions

1. Review Course Materials Thoroughly

Start with a comprehensive review of textbooks, lecture notes, and laboratory manuals. Focus on understanding core concepts, procedures, and scientific principles.

2. Practice Past Exam Questions

Access previous exam papers or sample questions to familiarize yourself with the format and typical

content. Practice under timed conditions to improve time management.

3. Develop Clear and Concise Responses

Work on articulating answers clearly, providing relevant details without unnecessary verbosity. Use bullet points for lists and diagrams where appropriate.

4. Engage in Group Study and Discussions

Collaborate with peers to discuss challenging topics, clarify doubts, and learn different approaches to problem-solving.

5. Focus on Practical Skills

Hands-on practice in laboratories enhances understanding and confidence, especially for questions involving evidence analysis or interpretation of data.

6. Stay Updated on Forensic Advances and Legal Standards

Follow recent developments, technologies, and legal updates relevant to forensic science to ensure current knowledge.

Tips for Effectively Answering Forensic Final Examination Questions

1. Read Questions Carefully

Understand exactly what is being asked before formulating your response. Pay attention to keywords such as "explain," "analyze," or "compare."

2. Plan Your Answers

Outline your response briefly, organizing points logically. This helps avoid omissions and ensures clarity.

3. Use Technical Language Appropriately

Employ correct forensic terminology to demonstrate expertise and precision.

4. Support Answers with Evidence and Examples

Whenever possible, cite specific procedures, case examples, or scientific principles to strengthen

your response.

5. Manage Your Time Effectively

Allocate time proportionally to question weightings, leaving sufficient time for review and revision.

6. Review Your Responses

If time permits, proofread answers for clarity, accuracy, and completeness, correcting any errors.

Conclusion

The forensic final examination question is a comprehensive assessment tool that tests a candidate's mastery of forensic science principles, investigative procedures, and legal considerations. Success depends on thorough preparation, practical experience, and strategic answering techniques. By understanding the structure and common topics of these questions, candidates can develop effective study plans and approach exams with confidence. Ultimately, excelling in forensic final exams not only signifies academic achievement but also paves the way for a successful career in this vital and dynamic field of justice and scientific discovery.

Forensic Final Examination Question: An In-Depth Expert Analysis

In the realm of forensic science education and professional certification, the forensic final examination question serves as a critical benchmark for assessing a candidate's comprehensive knowledge, analytical skills, and practical understanding of forensic principles. Whether preparing for certification, academic evaluation, or professional development, understanding the nuances of these questions is essential for success. This article offers an in-depth exploration of the forensic final examination question, breaking down its components, significance, structure, and best practices for approaching it like an expert.

Understanding the Role and Significance of Forensic Final Examination Questions

Purpose and Objectives

The forensic final examination question is designed to evaluate a candidate's mastery over core forensic disciplines, including crime scene investigation, forensic biology, toxicology, fingerprint analysis, digital forensics, and legal considerations. Unlike multiple-choice assessments, these questions often require detailed written responses that demonstrate critical thinking, problem-solving skills, and practical application of knowledge.

The objectives include:

- Verifying comprehensive understanding of forensic methodologies and principles
- Assessing analytical and interpretative abilities
- Testing the candidate's capacity to synthesize information and present logical conclusions
- Ensuring readiness for real-world forensic challenges, including courtroom testimony

Significance in Forensic Career Development

A well-crafted final examination question serves multiple purposes:

- **Benchmark for Competency:** It acts as a standard to measure whether a candidate possesses the necessary skills to perform forensic analyses accurately and ethically.
- **Preparation for Courtroom Testimony:** Many questions simulate scenarios where candidates must articulate findings convincingly in legal settings.
- **Encourages Critical Thinking:** The open-ended nature pushes candidates to think beyond rote memorization, fostering a deeper understanding.
- **Certification and Accreditation:** Forensic professionals often need passing scores on these questions to attain certifications, which are prerequisites for employment and advancement.

Structural Components of Forensic Final Examination Questions

A forensic final examination question typically comprises several key parts, each serving a specific purpose to evaluate different facets of a candidate's expertise.

Scenario or Case Context

Most questions begin with a detailed scenario or case vignette. This contextualizes the problem, providing essential facts such as:

- Crime scene description
- Evidence types and locations
- Witness or suspect statements
- Relevant legal or procedural considerations

Purpose: This component tests the candidate's ability to assimilate information, prioritize evidence, and understand the case's scope.

Specific Questions or Tasks

Following the scenario, the question presents targeted prompts, which may include:

- Evidence analysis (e.g., DNA, fingerprints, toxicology reports)
- Crime scene reconstruction
- Interpretation of lab results
- Legal and ethical considerations
- Recommendations for further investigation

Purpose: These tasks evaluate the candidate's technical knowledge, analytical reasoning, and decision-making capacity.

Evaluation Criteria

Effective questions specify what aspects are most critical, such as:

- Accuracy of interpretation
- Logical coherence
- Use of scientific principles
- Clarity and professionalism in communication

Purpose: Clear criteria guide candidates to focus on relevant points and demonstrate their competencies comprehensively.

Types of Forensic Final Examination Questions

Understanding the different formats helps candidates prepare effectively. Common types include:

Case Analysis and Report Writing

Candidates are asked to analyze a complex scenario and produce a detailed report summarizing findings, methodologies, and conclusions. This assesses their ability to communicate scientific data effectively.

Problem-Solving Questions

These require troubleshooting or designing investigative strategies based on given evidence, testing creative and critical thinking skills.

Multiple-Part Questions

Often, exams incorporate multipart questions that progressively build on each other, simulating real investigative workflows.

Scenario-Based Ethical Dilemmas

Candidates may confront ethical challenges, such as handling contaminated evidence or conflicts of interest, evaluating their judgment and professionalism.

Best Practices for Approaching Forensic Final Examination Questions

Success hinges on strategic preparation and exam-day execution. Here are expert-endorsed tips:

Deepen Theoretical and Practical Knowledge

- Regularly review core forensic disciplines
- Stay updated on emerging technologies and methodologies
- Engage in hands-on laboratory training

Develop Critical Thinking and Analytical Skills

- Practice analyzing mock case scenarios
- Participate in forensic case discussions
- Hone the ability to interpret complex data and evidence

Practice Structured Response Writing

- Use clear, logical organization: introduction, analysis, conclusion
- Support assertions with scientific reasoning
- Be concise yet comprehensive

Familiarize with Common Question Formats

- Review past exam papers and sample questions
- Practice time management to allocate sufficient effort to each part

- Focus on clarity and professionalism in communication

Understand Legal and Ethical Frameworks

- Know the principles of admissibility, chain of custody, and confidentiality
- Be prepared to discuss ethical dilemmas confidently

Common Challenges and How to Overcome Them

Despite thorough preparation, candidates often face hurdles such as:

- Ambiguous Scenarios: Clarify assumptions where possible, and explicitly state them in responses.
- Information Overload: Focus on relevant evidence and avoid unnecessary details.
- Time Pressure: Prioritize questions based on marks and difficulty; allocate time accordingly.
- Complex Technical Content: Break down complex data into simpler components and explain in layman's terms when appropriate.

Conclusion: Mastery of Forensic Final Examination Questions as a Pathway to Professional Excellence

The forensic final examination question encapsulates the culmination of a candidate's learning journey – testing not just theoretical knowledge but also practical application, ethical judgment, and communication skills. Excelling in these questions requires a disciplined approach, thorough understanding of forensic principles, and the ability to think critically under pressure.

Forensic professionals who master these assessments demonstrate their readiness to contribute effectively to criminal investigations, legal proceedings, and scientific advancements. As the forensic landscape continues to evolve with technological innovations, so too must the approach to these examination questions – emphasizing adaptability, continuous learning, and critical analysis.

In sum, the forensic final examination question is more than an assessment tool; it is a reflection of a candidate's preparedness to uphold the integrity, accuracy, and professionalism that the field demands. Aspiring forensic experts should approach these questions with seriousness, strategic planning, and a commitment to excellence – turning challenges into opportunities for growth and recognition in this vital discipline.

Question What are the key components typically included in a forensic final examination report? A forensic final examination report generally includes an introduction, case background,

methodology, findings, analysis, conclusion, and recommendations. It should also document all procedures, evidence handling, and relevant observations to ensure clarity and transparency. How should a forensic examiner prepare for the final examination to ensure accuracy? Preparation involves thoroughly reviewing all case documentation, understanding the objectives, calibrating equipment, adhering to standard operating procedures, and maintaining detailed records throughout the process to ensure accuracy and reproducibility of results. What are common challenges faced during a forensic final examination? Common challenges include incomplete or contaminated evidence, limited resources, time constraints, ambiguous data interpretation, and maintaining objectivity and impartiality throughout the process. How can forensic examiners ensure the integrity and admissibility of their final report in court? Examiners should follow established protocols, document every step meticulously, use validated methods, and ensure their findings are supported by clear, objective evidence. Proper chain of custody and adherence to legal standards are also crucial for admissibility. What are the ethical considerations involved in conducting a forensic final examination? Ethical considerations include maintaining objectivity, avoiding conflicts of interest, ensuring confidentiality, accurately reporting findings regardless of desired outcomes, and adhering to professional standards and legal requirements to uphold the integrity of the investigation.

Related keywords: forensic analysis, criminal investigation, evidence evaluation, forensic report, forensic science exam, crime scene analysis, forensic techniques, laboratory testing, forensic case study, forensic methodology

forensic science entrance test

Forensic science entrance test is a crucial step for aspiring students aiming to pursue a career in forensic science. As the field of forensic science gains prominence worldwide, more educational institutions and universities are offering specialized programs to train students in crime scene investigation, forensic analysis, and related disciplines. Preparing effectively for the entrance exam is essential to secure admission and embark on a rewarding career in this exciting domain. This article provides comprehensive insights into the forensic science entrance test, including its structure, preparation tips, important subjects, and career prospects.

Understanding the Forensic Science Entrance Test

What is the Forensic Science Entrance Test?

The forensic science entrance test is an examination designed to assess the knowledge, aptitude, and skills of candidates seeking admission into undergraduate or postgraduate forensic science programs. These tests evaluate a candidate's understanding of science fundamentals, analytical

thinking, and problem-solving abilities relevant to forensic investigations.

Who Conducts the Entrance Test?

Different universities and institutions organize their own entrance exams for forensic science courses. Some prominent bodies and universities include:

- University-specific entrance exams (e.g., Delhi University, Pune University)
- National-level exams (e.g., National Eligibility cum Entrance Test - NEET for medical-related forensic programs)
- Private institutions and colleges conducting their own tests

It is essential to check the specific requirements of the university or institute you are interested in.

Structure and Syllabus of the Entrance Test

Typical Exam Pattern

While the specific pattern varies across institutions, most forensic science entrance tests include:

- Multiple-choice questions (MCQs)
- Subjective or descriptive questions (less common in initial screening exams)
- Sections covering physics, chemistry, biology, general knowledge, and logical reasoning

Some exams may also include a personal interview or practical assessment.

Common Subjects Covered

The syllabus generally encompasses:

- **Physics:** Mechanics, optics, thermodynamics, and basic concepts relevant to forensic techniques
- **Chemistry:** Organic and inorganic chemistry, forensic chemistry, toxicology
- **Biology:** Cell biology, genetics, anatomy, physiology, and microbiology
- **General Knowledge:** Current affairs, basics of law and criminal justice system
- **Logical Reasoning and Quantitative Aptitude:** Puzzles, data interpretation, mathematical reasoning

Preparation Tips for the Forensic Science Entrance Test

Understanding the Syllabus and Exam Pattern

Begin by thoroughly analyzing the syllabus and previous years' question papers. This helps identify important topics and the exam's difficulty level.

Creating a Study Plan

Develop a structured timetable that allocates sufficient time to each subject. Consistency and discipline are key to covering the entire syllabus effectively.

Focus on Science Subjects

Since forensic science heavily relies on scientific principles, strengthen your fundamentals in physics, chemistry, and biology. Use standard textbooks, online courses, and coaching materials.

Practice Regularly

Solve previous years' question papers and take mock tests to improve speed and accuracy. Practice enhances understanding of question patterns and boosts confidence.

Stay Updated with Current Affairs

Read newspapers, magazines, and online portals to keep abreast of recent developments in forensic science, law enforcement, and technology.

Develop Analytical and Logical Skills

Engage in puzzles, logical reasoning exercises, and quantitative aptitude practice to sharpen your analytical capabilities.

Important Tips for Success

- **Time Management:** Practice solving questions within the stipulated time to improve your speed.
- **Healthy Lifestyle:** Maintain proper diet, exercise, and sleep routines to keep your mind sharp.
- **Seek Guidance:** Join coaching classes or online forums if needed, and clarify doubts promptly.
- **Stay Positive and Confident:** Believe in your preparation and stay motivated throughout the process.

Career Opportunities After Clearing the Entrance Test

Undergraduate and Postgraduate Programs

Successful candidates gain admission into various forensic science courses such as:

- B.Sc. in Forensic Science
- M.Sc. in Forensic Science
- B.Tech. or M.Tech. in Forensic Technology
- Diploma courses in forensic investigation and criminal justice

Job Roles and Sectors

Graduates can explore diverse career options in:

- Crime laboratories and forensic departments
- Law enforcement agencies and police departments
- Legal and judicial institutions
- Research and development organizations
- Private investigation firms
- Forensic consulting and crime scene investigation agencies

Potential Salary and Growth

Entry-level forensic scientists can expect a starting salary ranging from INR 3 lakh to 6 lakh per annum, with significant growth prospects with experience and specialization. Opportunities for research, teaching, and consultancy further enhance career growth.

Conclusion

Preparing for the forensic science entrance test requires dedication, systematic study, and a clear understanding of the exam pattern and syllabus. Aspiring students must focus on strengthening their science fundamentals, practicing regularly, and staying updated with current affairs related to forensic science. With proper preparation and perseverance, candidates can secure admission to reputed forensic science programs and pave the way for a fulfilling career in criminal investigation, forensic analysis, and crime scene management. The field of forensic science offers not only exciting professional opportunities but also the chance to contribute significantly to justice and societal safety.

Forensic Science Entrance Test: A Comprehensive Examination of Standards, Challenges, and Future Perspectives

In recent years, the field of forensic science has experienced exponential growth, becoming an indispensable component of criminal investigations, legal proceedings, and national security. As demand for qualified forensic professionals surges, the importance of a rigorous and standardized forensic science entrance test has come to the forefront. This examination not only serves as a gateway for aspiring forensic experts but also ensures the integrity, competence, and professionalism within this critical discipline. This article delves into the intricacies of forensic science entrance tests, examining their structure, significance, challenges, and prospects for reform.

Understanding the Role of Forensic Science Entrance Tests

The forensic science entrance test functions as the initial filter through which candidates demonstrate their aptitude, knowledge, and suitability for specialized study or employment in forensic science. Its primary objectives are to:

- Assess foundational knowledge in sciences such as biology, chemistry, physics, and mathematics.
- Evaluate analytical and logical reasoning skills vital for forensic investigations.
- Identify candidates with a keen interest and aptitude for applying scientific principles to criminal justice.
- Maintain professional standards by screening out unqualified applicants.

Given the multidisciplinary nature of forensic science, entrance tests often encompass a broad spectrum of subjects, making them comprehensive benchmarks for entry.

Structure and Components of a Typical Forensic Science Entrance Test

While variations exist across institutions and countries, most forensic science entrance examinations share core elements designed to evaluate core competencies. A typical test comprises the following sections:

1. Multiple Choice Questions (MCQs)

- Cover core sciences such as biology, chemistry, physics.
- Test knowledge of basic concepts, terminologies, and principles.
- Include questions on forensic-specific topics like fingerprint analysis, crime scene investigation,

and forensic toxicology.

2. Analytical and Reasoning Skills

- Critical thinking puzzles.
- Data interpretation.
- Logical deduction exercises.

3. Language and Comprehension

- Reading comprehension passages related to forensic scenarios.
- Grammar and vocabulary questions to assess communication skills.

4. Subjective/Descriptive Sections (in some cases)

- Short-answer questions assessing depth of understanding.
- Case-based questions requiring application of forensic principles.

5. Practical or Skill-Based Tests (in certain programs)

- Laboratory practicals or simulations.
- Identification exercises (e.g., fingerprint or blood stain analysis).

Standards and Eligibility Criteria

Eligibility requirements for forensic science entrance tests vary based on the level of study or employment:

- Undergraduate Programs: Usually require completion of higher secondary education (12th grade) with science streams (Physics, Chemistry, Biology, Mathematics).
- Postgraduate Programs: Require an undergraduate degree in relevant sciences.
- Professional or Certification Exams: Might have prerequisites like prior work experience or specific qualifications.

Standardization is crucial to ensure fairness; thus, many institutions adopt uniform syllabus guidelines and conduct centralized examinations.

Challenges in Conducting Forensic Science Entrance Tests

Despite their significance, forensic science entrance tests face multiple hurdles:

1. Variability in Syllabi and Standards

- Different institutions may have divergent curricula, making standardization difficult.
- Lack of a universally accepted exam framework leads to inconsistent assessment quality.

2. Accessibility and Equity

- Candidates from remote or underserved regions may face logistical challenges.
- Socioeconomic disparities can limit access to quality coaching or preparatory resources.

3. Question Paper Integrity and Security

- Risks of leaks, malpractice, or unfair practices threaten exam credibility.
- Ensuring secure examination centers and monitoring is resource-intensive.

4. Rapid Evolution of Forensic Science

- The field is continually advancing, necessitating regular updates to exam syllabi.
- Outdated questions can fail to assess current knowledge and practices.

5. Resource Constraints

- Limited infrastructure or trained personnel to design, administer, and evaluate tests.
- Financial constraints impacting large-scale testing initiatives.

Recent Trends and Reforms in Forensic Science Entrance Testing

In response to challenges, several reforms and innovations have emerged:

1. Digital and Remote Examinations

- Online testing platforms to increase accessibility.
- Use of AI-based proctoring to maintain integrity.

2. Standardization Initiatives

- National or regional bodies developing unified syllabi.
- Accreditation of testing agencies to uphold quality.

3. Incorporation of Practical Skills

- Emphasis on hands-on assessment through virtual labs or physical demonstrations.
- Scenario-based questions simulating real forensic cases.

4. Focus on Soft Skills and Ethical Understanding

- Inclusion of questions on ethical considerations, report writing, and communication.

5. Continuous Updating of Question Banks

- Regular revision aligned with latest forensic research and technologies.

Future Perspectives: Enhancing the Efficacy of Forensic Science Entrance Tests

Looking ahead, the evolution of forensic science entrance testing is likely to be shaped by technological advancements and the increasing complexity of forensic investigations. Key future directions include:

- Adaptive Testing: Utilizing AI to tailor question difficulty based on candidate responses, providing a more accurate assessment.
- Skill-Based Assessments: Incorporating practical evaluations, simulations, and virtual reality modules to assess real-world capabilities.
- Global Benchmarks: Developing international standards for forensic science assessments to facilitate cross-border collaboration and recognition.
- Inclusivity and Diversity: Designing accessible tests for differently-abled candidates and promoting equitable opportunities.

- Integration with Educational Pathways: Linking entrance tests with undergraduate and postgraduate curricula for seamless progression.

Conclusion

The forensic science entrance test stands as a cornerstone in shaping competent professionals vital for criminal justice and forensic investigations. While current frameworks have laid a foundation, ongoing reforms are essential to address emerging challenges, incorporate technological innovations, and uphold high standards of integrity. As forensic science continues to evolve, so must the mechanisms by which we select and prepare its practitioners. A robust, fair, and dynamic entrance testing system will not only foster excellence but also bolster public confidence in forensic processes, ultimately strengthening the pursuit of justice.

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- Recent publications in forensic science journals highlighting testing innovations and reforms.

Question What are the key topics covered in a forensic science entrance test? The entrance test typically covers topics such as forensic biology, forensic chemistry, fingerprint analysis, crime scene investigation, forensic toxicology, and general science knowledge. What is the eligibility criteria for appearing in a forensic science entrance exam? Candidates usually need to have completed their higher secondary education (12th grade) with science subjects like Physics, Chemistry, and Biology. Some exams may specify minimum percentage criteria or age limits. How can I prepare effectively for a forensic science entrance test? Preparation involves studying relevant science subjects, practicing previous years' question papers, staying updated on recent forensic techniques, and taking mock tests to improve time management. Are there any specific books or resources recommended for forensic science entrance exam preparation? Yes, books on forensic science fundamentals, NCERT science textbooks, and previous years' question papers are helpful. Additionally, online courses and coaching materials tailored for forensic entrance exams can be beneficial. What is the typical exam pattern for forensic science entrance tests? Most exams are multiple-choice questions (MCQs), with sections covering physics, chemistry, biology, and general awareness. The duration usually ranges from 1 to 3 hours, depending on the exam. Are there reserved categories for forensic science entrance exams? Yes, like many competitive exams, reserved category candidates such as SC, ST, OBC, and PwD may have relaxed eligibility criteria and reserved seats, as per government regulations. How important is practical knowledge in the

forensic science entrance test? While the entrance exam primarily assesses theoretical knowledge, a good understanding of practical applications and case studies can help in interview rounds or later stages of admission. What are the career prospects after clearing a forensic science entrance exam? Successful candidates can pursue undergraduate or postgraduate degrees in forensic science, leading to careers as forensic analysts, crime scene investigators, forensic toxicologists, and roles in law enforcement agencies and forensic labs.

Related keywords: forensic science exam, forensic entrance exam syllabus, forensic science admission test, forensic science qualification, forensic science test preparation, forensic science exam pattern, forensic science entrance requirements, forensic science entrance questions, forensic science exam dates, forensic science application process

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