Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **17CA2053** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF GENERAL FORENSIC SCIENCE** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | When is an expert summoned? | CO6 | 10 |
| b. | Describe direct examination, cross examination and re-examination. | CO3 | 10 |
| (OR) | | | | |
| 2. | a. | List out what an expert needs to produce in court ? | CO6 | 10 |
| b. | Explain the role of Forensic Scientist in criminal justice system. | CO3 | 10 |
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| 3. | a. | Define crime scene and physical evidence with examples. | CO5 | 5 |
| b. | Note on observation notes and collection, preservation and dispatch of samples for DNA testing. | CO4 | 15 |
| (OR) | | | | |
| 4. | a. | Guideline for collection of entomological evidence and blood stained items. | CO4 | 10 |
| b. | Describe zone method, points to remember in rough sketch and smooth sketch. | CO2 | 10 |
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| 5. | a. | Define Crime Scene Reconstruction. | CO4 | 2 |
| b. | List the stages involved in Crime Scene Reconstruction. | CO4 | 5 |
| c. | With regard to Blood Pattern Analysis, explain the method of calculating the angle of fall in a tailed blood drop. | CO4 | 3 |
| d. | Summarize at least 5 points to keep in mind while compiling a Crime Scene Reconstruction report. | CO6 | 5 |
| e. | Differentiate between the blood pattern formed by an arterial wound and a venous wound. | CO4 | 5 |
| (OR) | | | | |
| 6. | a. | Describe any 3 principles of Crime Scene Reconstruction with related examples. | CO4 | 9 |
| b. | List any 4 factors that can be deduced from a blood drop using blood pattern analysis. | CO4 | 4 |
| c. | Summarize the importance of Crime Scene Reconstruction. | CO4 | 4 |
| d. | In an Accident Scene Reconstruction, list any 3 factors you can deduce using tire/ skid marks. | CO4 | 3 |
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| 7. | a. | Briefly explain the 4 emerging investigative techniques. | CO5 | 8 |
| b. | Keeping the FBI-Apple encryption dispute in perspective, outline both cyber terrorism and crimes related to IP rights. | CO5 | 4 |
| c. | Distinguish between Dementia, Delirium and Delusion. | CO5 | 3 |
| d. | Justify the following statement with examples: “Voice Individualization is based both on anatomical variations and learned behavioral patterns.” | CO5 | 3 |
| e. | As per the IT Act 2000, a) identify the rank of the Investigating Officer who shall investigate any offence under the Act and b) specify the maximum period of imprisonment as per the Act. | CO3 | 2 |
| (OR) | | | | |
| 8. | a. | Describe Hallucination in detail. Discuss the risk of committing an offence during hallucination and the insanity defense and argument of diminished responsibility attached with it. | CO5 | 8 |
| b. | Name the ‘truth serum’ used in marco-analysis and the blood concentration at which it is used. | CO5 | 2 |
| c. | Identify who invented Brain Fingerprinting and the name of the specific wave response attached to it. | CO5 | 2 |
| d. | Discuss the 3 types of serial criminals and their specific criminal profiles. | CO5 | 6 |
| e. | Identify the section/s of law which defines Cyber defamation and its punishment in India. | CO3 | 2 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Describe with diagram the different parts of a computer with their specific functions. | CO4 | 7 |
| b. | Determine whether data is stored in a computer as hash value / hex value / binary digits. | CO4 | 1 |
| c. | Describe any 3 cyber crimes with relevant case examples. | CO4 | 9 |
| d. | Reorder the following steps of electronic crime scene management into their correct order: “Documentation, Presentation, Validation, Interpretation, Collection and Analysis”. | CO4 | 3 |