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PG-EE-July, 2026 (Forensic Science)

A

SET-Y

100069

Sr. No.

Time : 1¼ Hours

Max. Marks : 100

Total Questions : 100

Roll No. _____ (in figure) _____ (in words)

Name _____ Father's Name _____

Mother's Name _____ Date of Examination _____

(Signature of the Candidate)

(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

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2. All questions are compulsory. There will be no negative marking. Each correct answer will be awarded one full mark.
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5. Use only Black or Blue **BALL POINT PEN** of good quality in the OMR Answer-Sheet.
6. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
7. Question Booklet(s) along with answer key(s) of all the A, B, C & D codes will be got uploaded on the university website after the conduct of Entrance Examination. Candidates may raise valid objection / complaint, if any, with regard to discrepancy in the question booklet / answer key within 24 hours of uploading the same on the University website. The complaint be sent by the student to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
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(For Rough Work Only)

Forensic Science

1. Among the following who was the First Chief Minister of Haryana State ?
 - (1) Bansi Lal
 - (2) Bhajan Lal
 - (3) Pt. Bhagwat Dayal Sharma
 - (4) Rao Birinder Singh

2. The 2026 FIFA World Cup is co-hosted by which country (ies) ?
 - (1) United States of America
 - (2) Mexico
 - (3) Canada
 - (4) All of the above

3. Researchers and demographer typically define Generation 'Z' individuals that falls in :
 - (1) 1997 and 2012
 - (2) 1990 and 2010
 - (3) 1995 and 2008
 - (4) 2000 and 2015

4. Among the following which is the new name for Indian Evidence Act 1872 ?
 - (1) Bharatiya Sakshya Adhinyam (BSA)
 - (2) Bharatiya Nyaya Sanhita (BNS)
 - (3) Bharatiya Nagrik Suraksha Sanhita (BNSS)
 - (4) Bharatiya Sakshya Sanhita Adhinyam (BSS1)

5. What is the full form of SIR with respect to election ?
- (1) Successful Intensive Revision
 - (2) Special Intensive Revision
 - (3) Special Intensive Reporting
 - (4) Special Interrogation Revision
6. How many Prime Ministers (including acting) India has/had since gaining independence in 1947 ?
- (1) 14
 - (2) 11
 - (3) 16
 - (4) 18
7. The product of HCF and LCM of 2 numbers is 216. If one of the two numbers is 18, find the other :
- (1) 15
 - (2) 12
 - (3) 10
 - (4) None of these
8. The least number which when divided by 6, 10, 15, 30 leaves the remainder 2 is :
- (1) 62
 - (2) 32
 - (3) 122
 - (4) 17
9. A mixture of 20 kg of sugar and water contains 10% of water. How much water must be added to make 25% of the resulting mixture ?
- (1) 3 kg
 - (2) 2 kg
 - (3) 4 kg
 - (4) 9 kg
10. Circle is to circumference as square is to :
- (1) Area
 - (2) Surface Area
 - (3) Volume
 - (4) Perimeter

11. Among the following which High Court in India has the largest Jurisdiction in terms of states ?

- (1) Gujarat High Court
- (2) Punjab and Haryana High Court
- (3) Gauhati High Court
- (4) Uttar Pradesh High Court

12. What do you understand from Strait of Hormuz ?

- (1) Waterways of Iran
- (2) Waterways of Iran and USA
- (3) Waterways that connects the Persian Gulf to the Gulf of Oman
- (4) Waterways that connects the Persian gulf to the Gulf of Oman and Arabian Sea

13. If there is a very strong correlation between two variables then the correlation coefficient must be :

- (1) Any value larger than 1
- (2) Closer or equal to 1, if the correlation is positive
- (3) Much larger than 0, regardless of whether the correlation is negative or positive
- (4) None of these alternatives is correct

14. Fill in the blank with appropriate word.

Einstein was the.....scientist of his age.

- | | |
|-----------|--------------|
| (1) First | (2) Foremost |
| (3) Early | (4) Starting |

15. Identify the grammatically wrong statement among the following :

- (1) Scarcely had he reached the station when the train steamed out.
- (2) Scarcely had she put down the receiver when the phone again rang.
- (3) He had scarcely reached the station when the train steamed out.
- (4) Scarcely had he solved one problem when another problem cropped up.

16. Among the following Edmond Locard belongs to which country ?

- | | |
|------------|------------|
| (1) USA | (2) France |
| (3) Vienna | (4) UK |

17. Forensic Science can be defined as (select the most appropriate) :

- (1) Application of scientific methods and techniques for the purpose of justice.
- (2) Application of scientific methods and techniques for criminal investigation.
- (3) Application of scientific methods and techniques for police investigation
- (4) Application of scientific methods and techniques for the purpose of law.

18. What is the proper order of investigation of crime scene at the scene of crime ?
Arrange the following :

- (i) Collection of clue material
- (ii) Protection of scene of crime
- (iii) Packing and labeling
- (iv) Sketching and photographing of crime scene

Codes :

- (1) (ii), (iii), (iv), (i)
- (2) (ii), (iv), (i), (iii)
- (3) (i), (iv), (ii), (iii)
- (4) (iv), (ii), (iii), (i)

19. What do you mean by Hash value in respect of Computer Forensics ?

- (1) Mathematical formula that generates a numerical identifier based on input data.
- (2) If any bit of the input data changes, the output number changes
- (3) Both (1) and (2) are involved.
- (4) None of the above statement is correct.

20. Who is known as "Father of Criminal identification" ?

- (1) Francis Galton
- (2) Alphonse Bertillon
- (3) Edmond Locard
- (4) Mathieu Orfila

21. Narco analysis used in crime investigation was first done by :

- (1) William Bleckwenn
- (2) Charles Darwin
- (3) Mathew Orfila
- (4) Robert House

22. Who authored the book titled 'Questioned Documents' ?

- (1) Harrison and Wilson
- (2) Albert S. Osborn
- (3) H.R. Hardless
- (4) P.K. Saxena

23. What is the meaning of Ambidextrous individuals in respect of handwriting examination ?

- (1) An individual who cannot write
- (2) An individual who can write with both hands
- (3) An individual who can write with left hand
- (4) An individual who can write with left hand

24. Anti-clockwise rifling is found in which type of firearm ?

- (1) AK-47 Rifle
- (2) 7.62 mm self loading Rifle
- (3) .303-Rifle
- (4) .315 Rifle

25. Select among the following pioneer of Forensic Ballistics :

- (1) Henry Perkins Goddard
- (2) Calvin Hooker Goddard
- (3) Michel Thomas
- (4) Edmond Locard

26. In document examination, two inks having similar shades in visible light can be differentiated by using :

- (1) Comparison microscope
- (2) Stereozoom microscope
- (3) Video Spectral Comparator (VSC)
- (4) None of the above

27. The diameter of shotgun barrel is called :

- (1) Choke
- (2) Caliber
- (3) Bore
- (4) Cannelures

28. How many Central Forensic Science Laboratories are there in India currently ?
- (1) Three (2) Five
(3) Seven (4) Nine
29. The first fingerprint Bureau was established in India at :
- (1) Delhi, 1875 (2) Mumbai, 1890
(3) Kolkata, 1897 (4) Chennai, 1899
30. Among the following techniques which one is more sensitive for blood group determination from blood stains ?
- (1) Absorption-elution
(2) Absorption-inhibition
(3) Mixed agglutination
(4) Latex agglutination
31. Scott's test is applied for the detection of :
- (1) Cocaine (2) Opiates
(3) Barbiturates (4) Amphetamines
32. Stass-Otto process is used for the :
- (1) Extraction of poisons
(2) Extraction of DNA
(3) Extraction of compliments
(4) Extraction of antigens from blood

33. The full form of TNT explosive is :

- (1) 2, 4, 6-trinitrotoluene
- (2) 1, 3, 5-trinitrotoluene
- (3) 2, 2, 6-trinitrotoluene
- (4) 1, 4, 5-trinitrotoluene

34. In order to harden plaster of Paris cast of foot prints, among the following which substance is used ?

- (1) Sodium sulphate
- (2) Sodium carbonate
- (3) Talcum powder
- (4) Sodium chloride

35. Which of the following types of biological evidence contains haploid cell ?

- | | |
|-----------|------------|
| (1) Hair | (2) Blood |
| (3) Sperm | (4) Saliva |

36. Among the following which of the following forensic DNA techniques was developed for Forensic purposes ?

- (1) Single Nucleotide Polymorphism (SNP)
- (2) Short Tandem Repeat (STR)
- (3) Polymerase Chain Reaction (PCR)
- (4) Restriction Fragment Length Polymorphism

37. In order to prepare Heroin, which of the following chemicals is used as a reagent ?
- (1) Ammonium chloride
 - (2) Sodium hydroxide
 - (3) Acetic anhydride
 - (4) Ammonium hydroxide
38. The standard 7.62 mm AK-assault rifle has the magazine capacity of
- (1) 20
 - (2) 25
 - (3) 30
 - (4) 40
39. In biological evidence examination, the medullary index is calculated as
- (1) Ratio of the diameter of the cortex to the diameter of the entire hair
 - (2) Ratio of the diameter of the cuticle to the diameter of the entire hair
 - (3) Ratio of the diameter of the cortex to the diameter of medulla
 - (4) Ratio of the diameter of the medulla to the diameter of the entire hair
40. A handwriting which has a deliberate departure from the normal habit of writing is referred as :
- (1) Altered writing
 - (2) Secret writings
 - (3) Disguised writing
 - (4) Forged writing

41. Among the following which technique is considered most effective to develop fingerprints ?
- (1) Crystal violet method
 - (2) Super glue method
 - (3) Ninhydrin method
 - (4) Diazafluorenone (DFO)
42. Galton's details in fingerprints can also be called as :
- (1) First level details
 - (2) Second level details
 - (3) Third level details
 - (4) Fourth level
43. The section of criminal procedure code which exempts the scientific experts from personal appearance is :
- (1) Section 291
 - (2) Section 292
 - (3) Section 293
 - (4) Section 209
44. The Narcotic Drugs and Psychotropic Substances Act (NDPS) was established in India in the year :
- (1) 1980
 - (2) 1982
 - (3) 1985
 - (4) 1987

45. Sherlock Homes was a character in the novel of :

- (1) Victor Hugo
- (2) Perry Mason
- (3) Agatha Christie
- (4) Sir Arthur Conan Doyle

46. In the application of Scanning Electron Microscope (SEM), secondary electrons :

- (1) Are emitted by the nucleus of the various elements
- (2) Strike the object resulting other electrons
- (3) Strike the object and then reflect off the surface
- (4) Are emitted when the beams of primary electrons strike the object.

47. Among the following techniques which provides a unique fingerprint of a chemical structure ?

- (1) IR spectrometry
- (2) UV spectrometry
- (3) NIR spectrometry
- (4) Visible spectrometry

48. The study of hair is known as :

- | | |
|----------------|-----------------|
| (1) Lithology | (2) Histology |
| (3) Trichology | (4) Dermatology |

49. Preliminary observations of the pooling of blood at the lowest part of body caused by gravity is called :

- (1) Algor mortis
- (2) Livor mortis
- (3) Rigor mortis
- (4) Cadaveric spasm

50. What do you understand by means of Corpus delicti ?

- (1) Exhumation of corpse
- (2) Detection of chemical compounds
- (3) Corporal punishment for dereliction of duty
- (4) Body of evidence

51. Materials having identical values of property in all directions are called as :

- (1) Isotropic material
- (2) Orthotropic material
- (3) Anisotropic material
- (4) Stereoisomeric material

52. Which of the following is not classified as a hallucinogen ?

- | | |
|----------------|---------------|
| (1) Marijuana | (2) Methadone |
| (3) Psilocybin | (4) LSD |

53. The term designer drug was originally coined by :

- (1) Gary L. Henderson
- (2) Paul Kirk
- (3) Mathieu Orfila
- (4) Paracelsus

54. The active ingredients of cannabis are collectively known as :

- (1) Cannabinoids
- (2) Amnabinoids
- (3) Cannazoids
- (4) Cannatedois

55. Among the following which is valuable for analyzing mixtures of aromatic amine ?

- (1) X-ray spectroscopy
- (2) Near Infrared spectroscopy
- (3) U.V spectrophotometry
- (4) Atomic Absorption Spectrometry

56. The pH at which a protein ionizes as an acid and also as a base to the same extent is called :

- | | |
|--------------------|-----------------------|
| (1) Eutectic point | (2) Isomeric point |
| (3) Isotonic point | (4) Isoelectric point |

57. Formalin is an aqueous solution of :

- | | |
|------------------|-----------------|
| (1) Furfural | (2) Fluorescein |
| (3) Formaldehyde | (4) Formic acid |

58. Phenol is :

- (1) A base weaker than ammonia
- (2) An acid stronger than carbonic acid
- (3) An acid weaker than carbonic acid
- (4) A neutral compound

59. Royal water is :

- (1) Conc. Nitric acid
- (2) Aqua-regia
- (3) Conc. Nitric acid and Sulphuric acid
- (4) Dilute Nitric acid

60. A diazonium salt reacts with a phenol to give an azo dye. This reaction is known as :

- | | |
|-------------------|------------------|
| (1) Diazotisation | (2) Condensation |
| (3) Coupling | (4) Reduction |

61. The poisonous gas evolved in Bhopal tragedy from the pesticide plant of Union

Carbide plant was :

(1) Carbon monoxide gas

(2) Methyl isocyanate gas

(3) Phosgene gas

(4) Chloropicrin gas

62. The name of the organic compound DDT is :

(1) Dichloro diphenyl toluene

(2) Dichloro diphenyl trichloroethane

(3) Diphenyl dichloro trichloroethane

(4) Dichloro diphenyl thiosemicarbazide

63. Heroin is a derivative of :

(1) Cocaine

(2) Morphine

(3) Caffeine

(4) Nicotine

64. Among the following which is not an example of Acyclic Compound ?

(1) Acetaldehyde

(2) Ethane

(3) Cyclopropane

(4) Isobutane

65. Which of the following statements is *not true* about mass spectrometry ?
- (1) Impurities of masses different from the one being analysed interferes with the result.
 - (2) It has great sensitivity
 - (3) It is suitable for data storage
 - (4) It is suitable for library retrieval.
66. Mass spectrometer separates ions on the basis of which of the following ?
- (1) Mass
 - (2) Charge
 - (3) Molecular weight
 - (4) Mass to charge ratio
67. Identify the correct statement which is related to aromatic hydrocarbons :
- (1) It has only sigma bonds
 - (2) It has only pi bonds
 - (3) It has a sigma and two pi bonds
 - (4) It has a sigma and delocalized pi bonds
68. Which among the following is not a property of aromatic hydrocarbon ?
- (1) These compound have very good aromaticity.
 - (2) These compounds have excellent stability.
 - (3) These compounds do not undergo nucleophilic substitutions but they undergo electrophilic substitutions.
 - (4) There exists a strong ratio between carbon and hydrogen.

69. A buffer solution comprises which of the following ?

- (1) Weak acid in solution
- (2) A strong acid in solution
- (3) A weak base in solution
- (4) A weak acid and its conjugate base in solution.

70. What is the pH of a 0.015 M solution of potassium hydroxide (KOH) ?

- (1) 1.8
- (2) 12.2
- (3) 5.6
- (4) 8.8

71. One dalton is equal to which of the following ?

- (1) 1.66×10^{-9} kg
- (2) 1.66×10^{-27} kg
- (3) 9.31×10^{-27} kg
- (4) 9.31×10^{-31} kg

72. What do you understand by Ordeal Poison ?

- (1) Used as a poison in an ordeal situation
- (2) A poison to determine guilt or innocence
- (3) Used as an elixir
- (4) Used as drug for giving severe pain

73. Methanol toxicity is due to the formation of which of the following ?

- (1) Formic acid due to the action of dehydrogenase enzyme in liver
- (2) Formic acid due to the action of dehydrogenase enzyme in kidney
- (3) Formic acid due to the action of protease enzyme in liver
- (4) Formic acid due to the action of protease enzyme in kidney

74. Among the following which technique is used to separate serum ?

- (1) GLC
- (2) HPLC
- (3) Electrophoresis
- (4) PCR

75. In XRFs, filters are made up of which of the following ?

- (1) Lead
- (2) Aluminium
- (3) Zirconium
- (4) Beryllium

76. FTIR stands for :

- (1) Fourier Transform IR spectroscopy
- (2) Fourier Transmittance IR spectroscopy
- (3) Former transform IR spectroscopy
- (4) French Transform IR spectroscopy

77. Atomic absorption spectroscopy technique is applied for the analysis of :

- (1) Solvents
- (2) Volatile compounds
- (3) Metallic elements
- (4) Non-metallic elements

78. An examination of the development stages of the insects present on the decomposing corpse may yield valuable information about :

- (1) The age of the deceased
- (2) Identification of the deceased
- (3) The post mortem interval
- (4) The circumstances surround the death

79. The scientific name of Chiru is :

- (1) *Antilope cervicapra*
- (2) *Vulpes bengalensis*
- (3) *Capra aegagrus*
- (4) *Pantholops hoggsonii*

80. Among the following the light that has all its waves pulsating in a unison is called :

- (1) Laser
- (2) Oblique light
- (3) IR rays
- (4) UV light

81. Beer-Lambert's law gives a linear correlation with positive gradient between :
- (1) Absorbance and wavelength
 - (2) Absorbance and concentration
 - (3) Molar extinction coefficient and absorbance
 - (4) Molar extinction coefficient and concentration
82. While we move from visible region to radio waves in the electromagnetic spectrum, the frequency of rays :
- (1) Increases
 - (2) Decreases
 - (3) Remains constant
 - (4) All are correct
83. Which is correct among the following when the temperature of a liquid is raised ?
- (1) Its Refractive Index (RI) increases
 - (2) Its RI decreases
 - (3) Its RI disappears
 - (4) Its RI remains constant.
84. In microscopy, resolution is a measure of :
- (1) The ability of an electron microscope to determine the presence of a large number of elements.
 - (2) The empty magnification of the microscope.
 - (3) The total magnification power of the microscope.
 - (4) The ability of the lenses to separate two tiny details that are close together.

85. If a spectrophotometer has a photocell detector and xenon lamp source it is a/an :

- (1) Infrared spectrophotometer
- (2) Microwave instrument
- (3) Mass spectrometer
- (4) UV-visible spectrophotometer

86. Meta-analysis is :

- (1) Attempt to test the data
- (2) Analysis of several/multiple independent analysis
- (3) Analysis of large data
- (4) Analysis of meaningful data

87. If a coin is flung one time in the air, what is the probability of occurring head ?

- (1) 0.25
- (2) 1
- (3) 0.5
- (4) $\frac{2}{3}$

88. Among the following years, Wildlife (Protection) Act in India was enacted in :

- | | |
|----------|----------|
| (1) 1973 | (2) 1972 |
| (3) 1970 | (4) 1974 |

89. Computer forensics involves all of the following stated activities except :

- (1) Extraction of computer data
- (2) Presentation of computer data
- (3) Interpretation of computer data
- (4) Manipulation of computer data

90. Digital signature is :

- (1) Digital code which is attached to an electronically transmitted document to verify its sender's identity
- (2) Digital code which is attached to an electronically transmitted document to verify its contents
- (3) Digital code which is attached to an electronically transmitted document to verify its contents and the sender's identity
- (4) Scanned handwritten signatures

91. The isoelectric point (pI) of an amino acid or protein is :

- (1) The pH at which the amino acid or protein has no net charge
- (2) Zero charge at pH 7.0
- (3) The pH at which amino or protein is neither hydrophobic nor hydrophilic
- (4) The measure of the hydropathy of an amino acid or protein

92. Skewness of normal distribution is :

- (1) Negative
- (2) Positive
- (3) Undefined
- (4) Zero

93. The shape of the normal curve depends on its :

- (1) Mean Deviation
- (2) Standard Deviation
- (3) Quartile Deviation
- (4) Correlation

94. Normal distribution is also known as :

- (1) Cauchy's Distribution
- (2) Laplacian Distribution
- (3) Gaussian Distribution
- (4) Lagrangian Distribution

95. The coefficient of correlation :

- (1) is the square of the coefficient of determination
- (2) is the square root of the coefficient of determination
- (3) is the same as r-square
- (4) can never be negative

96. In a regression and correlation analysis if $r = 1$, then :

- (1) Coefficient of determination is 2
- (2) Coefficient of determination = 1
- (3) Coefficient of determination is 0
- (4) None of the above

97. Students divided into different groups according to their intelligence and gender will generate :

- (1) Quantitative data
- (2) Qualitative data
- (3) Continuous data
- (4) Constant data

98. If $3x + 2y = 2x + y + 3 = 4x + 3y - 3$, then (x, y) is :

- (1) Unique solution
- (2) No solution
- (3) Infinite solutions
- (4) None of these

99. A lab assistant has a solution of 50% acid and other which has 25 % acid. How much of each respectively should be mixed to make 10 litres of a 40% acid solution ?

- (1) 7, 3
- (2) 8, 2
- (3) 6, 4
- (4) 5, 5

100. The least number which when divided by 6, 10, 15, 30 leaves the remainder 2 is :

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(3) Seven	(4) Nine

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 - (2) Blood
 - (3) Sperm
 - (4) Saliva
9. Among the following which of the following forensic DNA techniques was developed for Forensic purposes ?
- (1) Single Nucleotide Polymorphism (SNP)
 - (2) Short Tandem Repeat (STR)
 - (3) Polymerase Chain Reaction (PCR)
 - (4) Restriction Fragment Length Polymorphism

10. In order to prepare Heroin, which of the following chemicals is used as acetylating agent ?

- (1) Ammonium chloride
- (2) Sodium hydroxide
- (3) Acetic anhydride
- (4) Ammonium hydroxide

11. The standard 7.62 mm AK-assault rifle has the magazine capacity of :

- (1) 20
- (2) 25
- (3) 30
- (4) 40

12. In biological evidence examination, the medullary index is calculated as :

- (1) Ratio of the diameter of the cortex to the diameter of the entire hair.
- (2) Ratio of of the diameter of the cuticle to the diameter of the entire hair
- (3) Ratio of the diameter of the cortex to the diameter of medulla
- (4) Ratio of the diameter of the medulla to the diameter of the entire hair

13. A handwriting which has a deliberate departure from the normal habit of person is referred as :

- (1) Altered writing
- (2) Secret writings
- (3) Disguised writing
- (4) Forged writing

14. Among the following which technique is considered most effective to develop fingerprints ?

- (1) Crystal violet method
- (2) Super glue method
- (3) Ninhydrin method
- (4) Diazafluorenone (DFO)

15. Galton's details in fingerprints can also be called as :

- (1) First level details
- (2) Second level details
- (3) Third level details
- (4) Fourth level

16. The section of criminal procedure code which exempts the scientific experts from personal appearance is :

- (1) Section 291
- (2) Section 292
- (3) Section 293
- (4) Section 209

17. The Narcotic Drugs and Psychotropic Substances Act (NDPS) was established in India in the year :

- (1) 1980
- (2) 1982
- (3) 1985
- (4) 1987

18. Sherlock Homes was a character in the novel of :
- (1) Victor Hugo
 - (2) Perry Mason
 - (3) Agatha Christie
 - (4) Sir Arthur Conan Doyle
19. In the application of Scanning Electron Microscope (SEM), secondary electrons :
- (1) Are emitted by the nucleus of the various elements
 - (2) Strike the object resulting other electrons
 - (3) Strike the object and then reflect off the surface
 - (4) Are emitted when the beams of primary electrons strike the object
20. Among the following techniques which provides a unique fingerprint of a chemical structure ?
- (1) IR spectrometry
 - (2) UV spectrometry
 - (3) NIR spectrometry
 - (4) Visible spectrometry

P.T.O.

21. The study of hair is known as :

- (1) Lithology
- (2) Histology
- (3) Trichology
- (4) Dermatology

22. Preliminary observations of the pooling of blood at the lowest part of body caused by gravity is called :

- (1) Algor mortis
- (2) Livor mortis
- (3) Rigor mortis
- (4) Cadaveric spasm

23. What do you understand by means of Corpus delecti ?

- (1) Exhumation of corpse
- (2) Detection of chemical compounds
- (3) Corporal punishment for dereliction of duty
- (4) Body of evidence

24. Materials having identical values of property in all directions are called as :

- (1) Isotropic material
- (2) Orthotropic material
- (3) Anisotropic material
- (4) Stereoisomeric material

25. Which of the following is not classified as a hallucinogen ?

- | | |
|----------------|---------------|
| (1) Marijuana | (2) Methadone |
| (3) Psilocybin | (4) LSD |

26. The term designer drug was originally coined by :

- (1) Gary L. Henderson
- (2) Paul Kirk
- (3) Mathieu Orfila
- (4) Paracelsus

27. The active ingredients of cannabis are collectively known as :

- (1) Cannabinoids
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- (4) Cannatedois

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- (1) X-ray spectroscopy
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- | | |
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| (1) Eutectic point | (2) Isomeric point |
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30. Formalin is an aqueous solution of :

- | | |
|------------------|-----------------|
| (1) Furfural | (2) Fluorescein |
| (3) Formaldehyde | (4) Formic acid |

31. Phenol is :

- (1) A base weaker than ammonia
- (2) An acid stronger than carbonic acid
- (3) An acid weaker than carbonic acid
- (4) A neutral compound

32. Royal water is :

- (1) Conc. Nitric acid
- (2) Aqua-regia
- (3) Conc. Nitric acid and Sulphuric acid
- (4) Dilute Nitric acid

33. A diazonium salt reacts with a phenol to give an azo dye. This reaction is known as :

- | | |
|-------------------|------------------|
| (1) Diazotisation | (2) Condensation |
| (3) Coupling | (4) Reduction |

34. The poisonous gas evolved in Bhopal tragedy from the pesticide plant of Union Carbide plant was :

- (1) Carbon monoxide gas
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47. Among the following which technique is used to separate serum ?

- (1) GLC
- (2) HPLC
- (3) Electrophoresis
- (4) PCR

48. In XRFs, filters are made up of which of the following ?

- (1) Lead
- (2) Aluminium
- (3) Zirconium
- (4) Beryllium

49. FTIR stands for :

- (1) Fourier Transform IR spectroscopy
- (2) Fourier Transmittance IR spectroscopy
- (3) Former transform IR spectroscopy
- (4) French Transform IR spectroscopy

50. Atomic absorption spectroscopy technique is applied for the analysis of :
- (1) Solvents
 - (2) Volatile compounds
 - (3) Metallic elements
 - (4) Non-metallic elements
51. An examination of the development stages of the insects present on the decomposing corpse may yield valuable information about :
- (1) The age of the deceased
 - (2) Identification of the deceased
 - (3) The post mortem interval
 - (4) The circumstances surround the death
52. The scientific name of Chiru is :
- (1) *Antilope cervicapra*
 - (2) *Vulpes bengalensis*
 - (3) *Capra aegagrus*
 - (4) *Pantholops hoggsonii*
53. Among the following the light that has all its waves pulsating in a unison is called :
- (1) Laser
 - (2) Oblique light
 - (3) IR rays
 - (4) UV light

54. Beer-Lambert's law gives a linear correlation with positive gradient between :
- (1) Absorbance and wavelength
 - (2) Absorbance and concentration
 - (3) Molar extinction coefficient and absorbance
 - (4) Molar extinction coefficient and concentration
55. While we move from visible region to radio waves in the electromagnetic spectrum, the frequency of rays :
- (1) Increases
 - (2) Decreases
 - (3) Remains constant
 - (4) All are correct
56. Which is correct among the following when the temperature of a liquid is raised ?
- (1) Its Refractive Index (RI) increases
 - (2) Its RI decreases
 - (3) Its RI disappears
 - (4) Its RI remains constant.
57. In microscopy, resolution is a measure of :
- (1) The ability of an electron microscope to determine the presence of a large number of elements.
 - (2) The empty magnification of the microscope.
 - (3) The total magnification power of the microscope.
 - (4) The ability of the lenses to separate two tiny details that are close together.

58. If a spectrophotometer has a photocell detector and xenon lamp source it is

a/an :

- (1) Infrared spectrophotometer
- (2) Microwave instrument
- (3) Mass spectrometer
- (4) UV-visible spectrophotometer

59. Meta-analysis is :

- (1) Attempt to test the data
- (2) Analysis of several/multiple independent analysis
- (3) Analysis of large data
- (4) Analysis of meaningful data

60. If a coin is flung one time in the air, what is the probability of occurring head ?

- (1) 0.25
- (2) 1
- (3) 0.5
- (4) 2/3

61. Among the following years, Wildlife (Protection) Act in India was enacted in :

(1) 1973

(2) 1972

(3) 1970

(4) 1974

62. Computer forensics involves all of the following stated activities except :

(1) Extraction of computer data

(2) Presentation of computer data

(3) Interpretation of computer data

(4) Manipulation of computer data

63. Digital signature is :

(1) Digital code which is attached to an electronically transmitted document to verify its sender's identity

(2) Digital code which is attached to an electronically transmitted document to verify its contents

(3) Digital code which is attached to an electronically transmitted document to verify its contents and the sender's identity

(4) Scanned handwritten signatures

64. The isoelectric point (pI) of an amino acid or protein is :

- (1) The pH at which the amino acid or protein has no net charge
- (2) Zero charge at pH 7.0
- (3) The pH at which amino or protein is neither hydrophobic nor hydrophilic
- (4) The measure of the hydropathy of an amino acid or protein

65. Skewness of normal distribution is :

- (1) Negative
- (2) Positive
- (3) Undefined
- (4) Zero

66. The shape of the normal curve depends on its :

- (1) Mean Deviation
- (2) Standard Deviation
- (3) Quartile Deviation
- (4) Correlation

67. Normal distribution is also known as :

- (1) Cauchy's Distribution
- (2) Laplacian Distribution
- (3) Gaussian Distribution
- (4) Lagrangian Distribution

68. The coefficient of correlation :

- (1) is ~~the~~ the square of the coefficient of determination
- (2) is the square root of the coefficient of determination
- (3) is the same as r-square
- (4) can never be negative

69. In a regression and correlation analysis if $r = 1$, then :

- (1) Coefficient of determination is 2
- (2) Coefficient of determination = 1
- (3) Coefficient of determination is 0
- (4) None of the above

70. Students divided into different groups according to their intelligence and gender will generate :

- (1) Quantitative data
- (2) Qualitative data
- (3) Continuous data
- (4) Constant data

71. If $3x + 2y = 2x + y + 3 = 4x + 3y - 3$, then (x, y) is :

- (1) Unique solution
- (2) No solution
- (3) Infinite solutions
- (4) None of these

72. A lab assistant has a solution of 50% acid and other which has 25 % acid. How much of each respectively should be mixed to make 10 litres of a 40% acid solution ?

- (1) 7, 3
- (2) 8, 2
- (3) 6, 4
- (4) 5, 5

73. The least number which when divided by 6, 10, 15, 30 leaves the remainder 2 is :

- (1) 62
- (2) 32
- (3) 122
- (4) 17

74. Among the following who was the First Chief Minister of Haryana State ?
- (1) Bansi Lal
 - (2) Bhajan Lal
 - (3) Pt. Bhagwat Dayal Sharma
 - (4) Rao Birinder Singh
75. The 2026 FIFA World Cup is co-hosted by which country (ies) ?
- (1) United States of America
 - (2) Mexico
 - (3) Canada
 - (4) All of the above
76. Researchers and demographer typically define Generation 'Z' individuals that falls in :
- (1) 1997 and 2012
 - (2) 1990 and 2010
 - (3) 1995 and 2008
 - (4) 2000 and 2015
77. Among the following which is the new name for Indian Evidence Act 1872 ?
- (1) Bharatiya Sakshya Adhiniyam (BSA)
 - (2) Bharatiya Nyaya Sanhita (BNS)
 - (3) Bharatiya Nagrik Suraksha Sanhita (BNSS)
 - (4) Bharatiya Sakshya Sanhita Adhiniyam (BSSI)

78. What is the full form of SIR with respect to election ?
(1) Successful Intensive Revision
(2) Special Intensive Revision
(3) Special Intensive Reporting
(4) Special Interrogation Revision
79. How many Prime Ministers (including acting) India has/had since gaining independence in 1947 ?
(1) 14
(2) 11
(3) 16
(4) 18
80. The product of HCF and LCM of 2 numbers is 216. If one of the two numbers is 18, find the other :
(1) 15
(2) 12
(3) 10
(4) None of these
81. The least number which when divided by 6, 10, 15, 30 leaves the remainder 2 is :
(1) 62
(2) 32
(3) 122
(4) 17
82. A mixture of 20 kg of sugar and water contains 10% of water. How much water must be added to make 25% of the resulting mixture ?
(1) 3 kg
(2) 2 kg
(3) 4 kg
(4) 9 kg
83. Circle is to circumference as square is to :
(1) Area
(2) Surface Area
(3) Volume
(4) Perimeter

P.T.O.

84. Among the following which High Court in India has the largest Jurisdiction in terms of states ?

- (1) Gujarat High Court
- (2) Punjab and Haryana High Court
- (3) Gauhati High Court
- (4) Uttar Pradesh High Court

85. What do you understand from Strait of Hormuz ?

- (1) Waterways of Iran
- (2) Waterways of Iran and USA
- (3) Waterways that connects the Persian Gulf to the Gulf of Oman
- (4) Waterways that connects the Persian gulf to the Gulf of Oman and Arabian Sea

86. If there is a very strong correlation between two variables then the correlation coefficient must be :

- (1) Any value larger than 1
- (2) Closer or equal to 1, if the correlation is positive
- (3) Much larger than 0, regardless of whether the correlation is negative or positive
- (4) None of these alternatives is correct

87. Fill in the blank with appropriate word.

Einstein was the.....scientist of his age.

- | | |
|-----------|--------------|
| (1) First | (2) Foremost |
| (3) Early | (4) Starting |

88. Identify the grammatically wrong statement among the following :

- (1) Scarcely had he reached the station when the train steamed out.
- (2) Scarcely had she put down the receiver when the phone again rang.
- (3) He had scarcely reached the station when the train steamed out.
- (4) Scarcely had he solved one problem when another problem cropped up.

89. Among the following Edmond Locard belongs to which country ?

- | | |
|------------|------------|
| (1) USA | (2) France |
| (3) Vienna | (4) UK |

90. Forensic Science can be defined as (select the most appropriate) :

- (1) Application of scientific methods and techniques for the purpose of justice.
- (2) Application of scientific methods and techniques for criminal investigation.
- (3) Application of scientific methods and techniques for police investigation
- (4) Application of scientific methods and techniques for the purpose of law.

91. What is the proper order of investigation of crime scene at the scene of crime ?
Arrange the following :

- (i) Collection of clue material
- (ii) Protection of scene of crime
- (iii) Packing and labeling
- (iv) Sketching and photographing of crime scene

Codes :

- (1) (ii), (iii), (iv), (i)
- (2) (ii), (iv), (i), (iii)
- (3) (i), (iv), (ii), (iii)
- (4) (iv), (ii), (iii), (i)

92. What do you mean by Hash value in respect of Computer Forensics ?

- (1) Mathematical formula that generates a numerical identifier based on input data.
- (2) If any bit of the input data changes, the output number changes
- (3) Both (1) and (2) are involved.
- (4) None of the above statement is correct.

93. Who is known as "Father of Criminal identification" ?

- (1) Francis Galton
- (2) Alphonse Bertillon
- (3) Edmond Locard
- (4) Mathieu Orfila

94. Narco analysis used in crime investigation was first done by :

- (1) William Bleckwenn
- (2) Charles Darwin
- (3) Mathew Orfila
- (4) Robert House

95. Who authored the book titled 'Questioned Documents' ?

- (1) Harrison and Wilson
- (2) Albert S. Osborn
- (3) H.R. Hardless
- (4) P.K. Saxena

96. What is the meaning of Ambidextrous individuals in respect of handwriting examination ?

- (1) An individual who cannot write
- (2) An individual who can write with both hands
- (3) An individual who can write with left hand
- (4) An individual who can write with left hand

97. Anti-clockwise rifling is found in which type of firearm ?

- (1) AK-47 Rifle
- (2) 7.62 mm self loading Rifle
- (3) .303-Rifle
- (4) .315 Rifle

98. Select among the following pioneer of Forensic Ballistics :

- (1) Henry Perkins Goddard
- (2) Calvin Hooker Goddard
- (3) Michel Thomas
- (4) Edmond Locard

99. In document examination, two inks having similar shades in visible light can be differentiated by using :

- (1) Comparison microscope
- (2) Stereozoom microscope
- (3) Video Spectral Comparator (VSC)
- (4) None of the above

100. The diameter of shotgun barrel is called :

- (1) Choke
- (2) Caliber
- (3) Bore
- (4) Cannelures

(For Rough Work Only)

For uploading on website

Total No. of Printed Pages : 26

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PG-EE-July, 2026 (Forensic Science)

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Sr. No.

Time : 1¼ Hours

Max. Marks : 100

Total Questions : 100

Roll No. _____ (in figure) _____ (in words)

Name _____ Father's Name _____

Mother's Name _____ Date of Examination _____

(Signature of the Candidate)

(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

1. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Discrepancy, if any, should be immediately reported to the invigilator and should ask for replacement of Question booklet / OMR Answer Sheet. **Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after start of the examination.**
2. All questions are compulsory. There will be no negative marking. Each correct answer will be awarded one full mark.
3. For each question, four suggested answers (1), (2), (3), (4) are given. The candidate is to choose only one answer which he / she considers the correct or best one. If the candidate darkens more than one circle or cutting / over writing / erasing, then such answer(s) shall not be evaluated.
4. The candidate **MUST NOT** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the space provided in the end of question booklet. Answers **MUST NOT** be ticked in the Question book-let.
5. Use only Black or Blue **BALL POINT PEN** of good quality in the OMR Answer-Sheet.
6. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
7. Question Booklet(s) along with answer key(s) of all the A, B, C & D codes will be got uploaded on the university website after the conduct of Entrance Examination. Candidates may raise valid objection / complaint, if any, with regard to discrepancy in the question booklet / answer key within 24 hours of uploading the same on the University website. The complaint be sent by the student to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
8. The candidates must return the Question booklet as well as Original OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / misbehavior will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.

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1

2

Forensic Science

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Einstein was the.....scientist of his age.

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| (1) First | (2) Foremost |
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Codes :

- (1) (ii), (iii), (iv), (i)
- (2) (ii), (iv), (i), (iii)
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- (4) (iv), (ii), (iii), (i)

68. What do you mean by Hash value in respect of Computer Forensics ?

- (1) Mathematical formula that generates a numerical identifier based on input data.
- (2) If any bit of the input data changes, the output number changes
- (3) Both (1) and (2) are involved.
- (4) None of the above statement is correct.

69. Who is known as “Father of Criminal identification” ?

- (1) Francis Galton
- (2) Alphonse Bertillon
- (3) Edmond Locard
- (4) Mathieu Orfila

70. Narco analysis used in crime investigation was first done by :

- (1) William Bleckwenn
- (2) Charles Darwin
- (3) Mathew Orfila
- (4) Robert House

71. Who authored the book titled 'Questioned Documents' ?

- (1) Harrison and Wilson
- (2) Albert S. Osborn
- (3) H.R. Hardless
- (4) P.K. Saxena

72. What is the meaning of Ambidextrous individuals in respect of handwriting examination ?

- (1) An individual who cannot write
- (2) An individual who can write with both hands
- (3) An individual who can write with left hand
- (4) An individual who can write with left hand

73. Anti-clockwise rifling is found in which type of firearm ?

- (1) AK-47 Rifle
- (2) 7.62 mm self loading Rifle
- (3) .303-Rifle
- (4) .315 Rifle

74. Select among the following pioneer of Forensic Ballistics :

- (1) Henry Perkins Goddard
- (2) Calvin Hooker Goddard
- (3) Michel Thomas
- (4) Edmond Locard

75. In document examination, two inks having similar shades in visible light can be differentiated by using :

- (1) Comparison microscope
- (2) Stereozoom microscope
- (3) Video Spectral Comparator (VSC)
- (4) None of the above

76. The diameter of shotgun barrel is called :

- (1) Choke
- (2) Caliber
- (3) Bore
- (4) Cannelures

77. How many Central Forensic Science Laboratories are there in India currently ?
- (1) Three
 - (2) Five
 - (3) Seven
 - (4) Nine
78. The first fingerprint Bureau was established in India at :
- (1) Delhi, 1875
 - (2) Mumbai, 1890
 - (3) Kolkata, 1897
 - (4) Chennai, 1899
79. Among the following techniques which one is more sensitive for blood group determination from blood stains ?
- (1) Absorption-elution
 - (2) Absorption-inhibition
 - (3) Mixed agglutination
 - (4) Latex agglutination
80. Scott's test is applied for the detection of :
- (1) Cocaine
 - (2) Opiates
 - (3) Barbiturates
 - (4) Amphetamines
81. Stass-Otto process is used for the :
- (1) Extraction of poisons
 - (2) Extraction of DNA
 - (3) Extraction of compliments
 - (4) Extraction of antigens from blood

82. The full form of TNT explosive is :

- (1) 2, 4, 6-trinitrotoluene
- (2) 1, 3, 5-trinitrotoluene
- (3) 2, 2, 6-trinitrotoluene
- (4) 1, 4, 5-trinitrotoluene

83. In order to harden plaster of Paris cast of foot prints, among the following which substance is used ?

- (1) Sodium sulphate
- (2) Sodium carbonate
- (3) Talcum powder
- (4) Sodium chloride

84. Which of the following types of biological evidence contains haploid cell ?

- (1) Hair
- (2) Blood
- (3) Sperm
- (4) Saliva

85. Among the following which of the following forensic DNA techniques was developed for Forensic purposes ?

- (1) Single Nucleotide Polymorphism (SNP)
- (2) Short Tandem Repeat (STR)
- (3) Polymerase Chain Reaction (PCR)
- (4) Restriction Fragment Length Polymorphism

86. In order to prepare Heroin, which of the following chemicals is used as acetylating agent ?

- (1) Ammonium chloride
- (2) Sodium hydroxide
- (3) Acetic anhydride
- (4) Ammonium hydroxide

87. The standard 7.62 mm AK-assault rifle has the magazine capacity of :

- (1) 20
- (2) 25
- (3) 30
- (4) 40

88. In biological evidence examination, the medullary index is calculated as :

- (1) Ratio of the diameter of the cortex to the diameter of the entire hair.
- (2) Ratio of of the diameter of the cuticle to the diameter of the entire hair
- (3) Ratio of the diameter of the cortex to the diameter of medulla
- (4) Ratio of the diameter of the medulla to the diameter of the entire hair

89. A handwriting which has a deliberate departure from the normal habit of person is referred as :

- (1) Altered writing
- (2) Secret writings
- (3) Disguised writing
- (4) Forged writing

90. Among the following which technique is considered most effective to develop fingerprints ?

- (1) Crystal violet method
- (2) Super glue method
- (3) Ninhydrin method
- (4) Diazafluorenone (DFO)

91. Galton's details in fingerprints can also be called as :

- (1) First level details
- (2) Second level details
- (3) Third level details
- (4) Fourth level

92. The section of criminal procedure code which exempts the scientific experts from personal appearance is :

- (1) Section 291
- (2) Section 292
- (3) Section 293
- (4) Section 209

93. The Narcotic Drugs and Psychotropic Substances Act (NDPS) was established in India in the year :

- (1) 1980
- (2) 1982
- (3) 1985
- (4) 1987

94. Sherlock Homes was a character in the novel of :

- (1) Victor Hugo
- (2) Perry Mason
- (3) Agatha Christie
- (4) Sir Arthur Conan Doyle

95. In the application of Scanning Electron Microscope (SEM), secondary electrons :

- (1) Are emitted by the nucleus of the various elements
- (2) Strike the object resulting other electrons
- (3) Strike the object and then reflect off the surface
- (4) Are emitted when the beams of primary electrons strike the object

96. Among the following techniques which provides a unique fingerprint of a chemical structure ?

- (1) IR spectrometry
- (2) UV spectrometry
- (3) NIR spectrometry
- (4) Visible spectrometry

97. The study of hair is known as :

- | | |
|----------------|-----------------|
| (1) Lithology | (2) Histology |
| (3) Trichology | (4) Dermatology |

98. Preliminary observations of the pooling of blood at the lowest part of body caused by gravity is called :

- (1) Algor mortis
- (2) Livor mortis
- (3) Rigor mortis
- (4) Cadaveric spasm

99. What do you understand by means of Corpus delicti ?

- (1) Exhumation of corpse
- (2) Detection of chemical compounds
- (3) Corporal punishment for dereliction of duty
- (4) Body of evidence

100. Materials having identical values of property in all directions are called as :

- (1) Isotropic material
- (2) Orthotropic material
- (3) Anisotropic material
- (4) Stereoisomeric material

(For Rough Work Only)

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Total No. of Printed Pages : 26

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

PG-EE-July, 2026 (Forensic Science)

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100052

Sr. No.

Time : 1¼ Hours

Max. Marks : 100

Total Questions : 100

Roll No. _____ (in figure) _____ (in words)

Name _____ Father's Name _____

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(Signature of the Candidate)

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CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

1. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Discrepancy, if any, should be immediately reported to the invigilator and should ask for replacement of Question booklet / OMR Answer Sheet. **Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after start of the examination.**
2. All questions are compulsory. There will be no negative marking. Each correct answer will be awarded one full mark.
3. For each question, four suggested answers (1), (2), (3), (4) are given. The candidate is to choose only one answer which he / she considers the correct or best one. If the candidate darkens more than one circle or cutting / over writing / erasing, then such answer(s) shall not be evaluated.
4. The candidate **MUST NOT** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the space provided in the end of question booklet. Answers **MUST NOT** be ticked in the Question book-let.
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6. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
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Forensic Science

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- (iv) Sketching and photographing of crime scene

Codes :

- (1) (ii), (iii), (iv), (i)
- (2) (ii), (iv), (i), (iii)
- (3) (i), (iv), (ii), (iii)
- (4) (iv), (ii), (iii), (i)

43. What do you mean by Hash value in respect of Computer Forensics ?

- (1) Mathematical formula that generates a numerical identifier based on input data.
- (2) If any bit of the input data changes, the output number changes
- (3) Both (1) and (2) are involved.
- (4) None of the above statement is correct.

44. Who is known as "Father of Criminal identification" ?

- (1) Francis Galton
- (2) Alphonse Bertillon
- (3) Edmond Locard
- (4) Mathieu Orfila

45. Narco analysis used in crime investigation was first done by :

- (1) William Bleckwenn
- (2) Charles Darwin
- (3) Mathew Orfila
- (4) Robert House

46. Who authored the book titled 'Questioned Documents' ?

- (1) Harrison and Wilson
- (2) Albert S. Osborn
- (3) H.R. Hardless
- (4) P.K. Saxena

47. What is the meaning of Ambidextrous individuals in respect of handwriting examination ?

- (1) An individual who cannot write
- (2) An individual who can write with both hands
- (3) An individual who can write with left hand
- (4) An individual who can write with left hand

48. Anti-clockwise rifling is found in which type of firearm ?

- (1) AK-47 Rifle
- (2) 7.62 mm self loading Rifle
- (3) .303-Rifle
- (4) .315 Rifle

49. Select among the following pioneer of Forensic Ballistics :

- (1) Henry Perkins Goddard
- (2) Calvin Hooker Goddard
- (3) Michel Thomas
- (4) Edmond Locard

50. In document examination, two inks having similar shades in visible light can be differentiated by using :

- (1) Comparison microscope
- (2) Stereozoom microscope
- (3) Video Spectral Comparator (VSC)
- (4) None of the above

51. The diameter of shotgun barrel is called :

- (1) Choke
- (2) Caliber
- (3) Bore
- (4) Cannelures

52. How many Central Forensic Science Laboratories are there in India currently ?
- (1) Three (2) Five
(3) Seven (4) Nine
53. The first fingerprint Bureau was established in India at :
- (1) Delhi, 1875 (2) Mumbai, 1890
(3) Kolkata, 1897 (4) Chennai, 1899
54. Among the following techniques which one is more sensitive for blood group determination from blood stains ?
- (1) Absorption-elution
(2) Absorption-inhibition
(3) Mixed agglutination
(4) Latex agglutination
55. Scott's test is applied for the detection of :
- (1) Cocaine (2) Opiates
(3) Barbiturates (4) Amphetamines
56. Stass-Otto process is used for the :
- (1) Extraction of poisons
(2) Extraction of DNA
(3) Extraction of compliments
(4) Extraction of antigens from blood

57. The full form of TNT explosive is :
- (1) 2, 4, 6-trinitrotoluene
 - (2) 1, 3, 5-trinitrotoluene
 - (3) 2, 2, 6-trinitrotoluene
 - (4) 1, 4, 5-trinitrotoluene
58. In order to harden plaster of Paris cast of foot prints, among the following which substance is used ?
- (1) Sodium sulphate
 - (2) Sodium carbonate
 - (3) Talcum powder
 - (4) Sodium chloride
59. Which of the following types of biological evidence contains haploid cell ?
- (1) Hair
 - (2) Blood
 - (3) Sperm
 - (4) Saliva
60. Among the following which of the following forensic DNA techniques was developed for Forensic purposes ?
- (1) Single Nucleotide Polymorphism (SNP)
 - (2) Short Tandem Repeat (STR)
 - (3) Polymerase Chain Reaction (PCR)
 - (4) Restriction Fragment Length Polymorphism

61. In order to prepare Heroin, which of the following chemicals is used as acetylating agent ?
- (1) Ammonium chloride
 - (2) Sodium hydroxide
 - (3) Acetic anhydride
 - (4) Ammonium hydroxide
62. The standard 7.62 mm AK-assault rifle has the magazine capacity of :
- (1) 20
 - (2) 25
 - (3) 30
 - (4) 40
63. In biological evidence examination, the medullary index is calculated as :
- (1) Ratio of the diameter of the cortex to the diameter of the entire hair.
 - (2) Ratio of of the diameter of the cuticle to the diameter of the entire hair
 - (3) Ratio of the diameter of the cortex to the diameter of medulla
 - (4) Ratio of the diameter of the medulla to the diameter of the entire hair
64. A handwriting which has a deliberate departure from the normal habit of person is referred as :
- (1) Altered writing
 - (2) Secret writings
 - (3) Disguised writing
 - (4) Forged writing

65. Among the following which technique is considered most effective to develop fingerprints ?
- (1) Crystal violet method
 - (2) Super glue method
 - (3) Ninhydrin method
 - (4) Diazafluorenone (DFO)
66. Galton's details in fingerprints can also be called as :
- (1) First level details
 - (2) Second level details
 - (3) Third level details
 - (4) Fourth level
67. The section of criminal procedure code which exempts the scientific experts from personal appearance is :
- (1) Section 291
 - (2) Section 292
 - (3) Section 293
 - (4) Section 209
68. The Narcotic Drugs and Psychotropic Substances Act (NDPS) was established in India in the year :
- (1) 1980
 - (2) 1982
 - (3) 1985
 - (4) 1987

69. Sherlock Homes was a character in the novel of :
- (1) Victor Hugo
 - (2) Perry Mason
 - (3) Agatha Christie
 - (4) Sir Arthur Conan Doyle
70. In the application of Scanning Electron Microscope (SEM), secondary electrons :
- (1) Are emitted by the nucleus of the various elements
 - (2) Strike the object resulting other electrons
 - (3) Strike the object and then reflect off the surface
 - (4) Are emitted when the beams of primary electrons strike the object
71. Among the following techniques which provides a unique fingerprint of a chemical structure ?
- (1) IR spectrometry
 - (2) UV spectrometry
 - (3) NIR spectrometry
 - (4) Visible spectrometry

72. The study of hair is known as :

- | | |
|----------------|-----------------|
| (1) Lithology | (2) Histology |
| (3) Trichology | (4) Dermatology |

73. Preliminary observations of the pooling of blood at the lowest part of body caused by gravity is called :

- (1) Algor mortis
- (2) Livor mortis
- (3) Rigor mortis
- (4) Cadaveric spasm

74. What do you understand by means of Corpus delicti ?

- (1) Exhumation of corpse
- (2) Detection of chemical compounds
- (3) Corporal punishment for dereliction of duty
- (4) Body of evidence

75. Materials having identical values of property in all directions are called as :

- (1) Isotropic material
- (2) Orthotropic material
- (3) Anisotropic material
- (4) Stereoisomeric material

76. Which of the following is not classified as a hallucinogen ?
- (1) Marijuana
 - (2) Methadone
 - (3) Psilocybin
 - (4) LSD
77. The term designer drug was originally coined by :
- (1) Gary L. Henderson
 - (2) Paul Kirk
 - (3) Mathieu Orfila
 - (4) Paracelsus
78. The active ingredients of cannabis are collectively known as :
- (1) Cannabinoids
 - (2) Amnabinoids
 - (3) Cannazoids
 - (4) Cannatedois
79. Among the following which is valuable for analyzing mixtures of aromatic amine ?
- (1) X-ray spectroscopy
 - (2) Near Infrared spectroscopy
 - (3) U.V spectrophotometry
 - (4) Atomic Absorption Spectrometry

80. The pH at which a protein ionizes as an acid and also as a base to the same extent is called :

- | | |
|--------------------|-----------------------|
| (1) Eutectic point | (2) Isomeric point |
| (3) Isotonic point | (4) Isoelectric point |

81. Formalin is an aqueous solution of :

- | | |
|------------------|-----------------|
| (1) Furfural | (2) Fluorescein |
| (3) Formaldehyde | (4) Formic acid |

82. Phenol is :

- (1) A base weaker than ammonia
- (2) An acid stronger than carbonic acid
- (3) An acid weaker than carbonic acid
- (4) A neutral compound

83. Royal water is :

- (1) Conc. Nitric acid
- (2) Aqua-regia
- (3) Conc. Nitric acid and Sulphuric acid
- (4) Dilute Nitric acid

84. A diazonium salt reacts with a phenol to give an azo dye. This reaction is known as :

- | | |
|-------------------|------------------|
| (1) Diazotisation | (2) Condensation |
| (3) Coupling | (4) Reduction |

85. The poisonous gas evolved in Bhopal tragedy from the pesticide plant of Union Carbide plant was :
- (1) Carbon monoxide gas
 - (2) Methyl isocyanate gas
 - (3) Phosgene gas
 - (4) Chloropicrin gas
86. The name of the organic compound DDT is :
- (1) Dichloro diphenyl toluene
 - (2) Dichloro diphenyl trichloroethane
 - (3) Diphenyl dichloro trichloroethane
 - (4) Dichloro diphenyl thiosemicarbazide
87. Heroin is a derivative of :
- | | |
|--------------|--------------|
| (1) Cocaine | (2) Morphine |
| (3) Caffeine | (4) Nicotine |
88. Among the following which is not an example of Acyclic Compound ?
- | | |
|------------------|---------------|
| (1) Acetaldehyde | (2) Ethane |
| (3) Cyclopropane | (4) Isobutane |

89. Which of the following statements is *not true* about mass spectrometry ?
- (1) Impurities of masses different from the one being analysed interferes with the result.
 - (2) It has great sensitivity
 - (3) It is suitable for data storage
 - (4) It is suitable for library retrieval.
90. Mass spectrometer separates ions on the basis of which of the following ?
- (1) Mass
 - (2) Charge
 - (3) Molecular weight
 - (4) Mass to charge ratio
91. Identify the correct statement which is related to aromatic hydrocarbons :
- (1) It has only sigma bonds
 - (2) It has only pi bonds
 - (3) It has a sigma and two pi bonds
 - (4) It has a sigma and delocalized pi bonds
92. Which among the following is not a property of aromatic hydrocarbon ?
- (1) These compound have very good aromaticity.
 - (2) These compounds have excellent stability.
 - (3) These compounds do not undergo nucleophilic substitutions but they undergo electrophilic substitutions.
 - (4) There exists a strong ratio between carbon and hydrogen.

93. A buffer solution comprises which of the following ?
- (1) Weak acid in solution
 - (2) A strong acid in solution
 - (3) A weak base in solution
 - (4) A weak acid and its conjugate base in solution.
94. What is the pH of a 0.015 M solution of potassium hydroxide (KOH) ?
- (1) 1.8
 - (2) 12.2
 - (3) 5.6
 - (4) 8.8
95. One dalton is equal to which of the following ?
- (1) 1.66×10^{-9} kg
 - (2) 1.66×10^{-27} kg
 - (3) 9.31×10^{-27} kg
 - (4) 9.31×10^{-31} kg
96. What do you understand by Ordeal Poison ?
- (1) Used as a poison in an ordeal situation
 - (2) A poison to determine guilt or innocence
 - (3) Used as an elixir
 - (4) Used as drug for giving severe pain

P.T.O.

97. Methanol toxicity is due to the formation of which of the following ?

- (1) Formic acid due to the action of dehydrogenase enzyme in liver
- (2) Formic acid due to the action of dehydrogenase enzyme in kidney
- (3) Formic acid due to the action of protease enzyme in liver
- (4) Formic acid due to the action of protease enzyme in kidney

98. Among the following which technique is used to separate serum ?

- (1) GLC
- (2) HPLC
- (3) Electrophoresis
- (4) PCR

99. In XRFs, filters are made up of which of the following ?

- (1) Lead
- (2) Aluminium
- (3) Zirconium
- (4) Beryllium

100. FTIR stands for :

- (1) Fourier Transform IR spectroscopy
- (2) Fourier Transmittance IR spectroscopy
- (3) Former transform IR spectroscopy
- (4) French Transform IR spectroscopy

(For Rough Work Only)

Answer keys of M.Sc. (Forensic Science) entrance exam dated 13.07.2026

Q. NO.	A	B	C	D
1	3	3	2	3
2	4	3	1	3
3	1	1	1	4
4	1	1	2	1
5	2	1	4	2
6	3	1	3	2
7	2	2	3	2
8	1	3	2	4
9	3	4	3	4
10	4	3	2	2
11	3	3	2	3
12	4	4	2	2
13	2	3	3	4
14	2	2	1	3
15	3	2	4	1
16	2	3	4	4
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18	2	4	4	2
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42	2	4	2	2
43	3	2	2	3
44	3	2	2	2
45	4	2	2	1
46	3	1	2	2
47	1	3	2	2
48	3	3	3	3
49	2	1	1	2
50	4	3	3	3

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Answer keys of M.Sc. (Forensic Science) entrance exam dated 13.07.2026

Q. NO.	A	B	C	D
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52	2	4	1	3
53	1	1	1	3
54	1	2	2	1
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56	4	2	2	1
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72	2	3	2	3
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90	3	1	2	4
91	1	2	2	4
92	4	3	3	3
93	2	2	3	4
94	2	1	4	2
95	2	2	3	2
96	2	2	1	2
97	2	3	3	1
98	2	2	2	3
99	3	3	4	3
100	1	3	1	1