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**SET-“X”** (Total No. of printed pages : 16)

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

**PG-EE-July, 2025 (Forensic Science)**

Code

**A**

Sr. No. **10025**

Time : 1½ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_

Date of Birth : \_\_\_\_\_

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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3. 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.
4. Question Booklet along-with answer key of all the A,B,C and D code shall be got uploaded on the University Website immediately 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 students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case will be considered.
5. The candidate **MUST NOT** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question book-let itself. Answers **MUST NOT** be ticked in the Question book-let.
6. There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
7. Use only Black or Blue **BALL POINT PEN** of good quality in the OMR Answer-Sheet.
8. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOK-LET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.



**SET-X**  
**Code-A**

Question No.	Questions
1.	What comes next in the series ? 3, 6, 12, 24, ? (1) 36 (2) 48 (3) 60 (4) 40
2.	If $3x + 5 = 20$ , what is the value of $x$ ? (1) 3 (2) 5 (3) 15 (4) 10
3.	A train 120 meters long passes a man walking at 6 km/h in the same direction in 10 seconds. The speed of the train is : (1) 54 km/h (2) 60 km/h (3) 66 km/h (4) 72 km/h
4.	Which word is different from the others ? (1) Square (2) Triangle (3) Circle (4) Rectangle
5.	Find the odd one out : 2, 3, 5, 7, 11, 13, 17, 18 (1) 7 (2) 11 (3) 18 (4) 17
6.	If the code for "DOCTOR" is "FQEVQT", what is the code for "NURSE"? (1) PWTUG (2) PWTSE (3) MWTUG (4) PWSUG



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Question No.	Questions
7.	<p>If a box contains 8 red, 6 blue, and 4 green balls, the probability of picking a red ball is :</p> <p>(1) <math>\frac{1}{3}</math> (2) <math>\frac{2}{5}</math> (3) <math>\frac{4}{9}</math> (4) <math>\frac{2}{3}</math></p>
8.	<p>Which is the correct mirror image of the letter "F"?</p> <p>(1) <input type="checkbox"/> (2) f (3) J (4) None</p>
9.	<p>Ramesh is taller than Suresh, Suresh is taller than Mahesh. Who is the tallest ?</p> <p>(1) Mahesh (2) Suresh (3) Ramesh (4) Cannot say</p>
10.	<p>Which is not a unit of measurement ?</p> <p>(1) Newton (2) Joule (3) Pascal (4) Voltmeter</p>
11.	<p>What is the average of 12, 15, 18, 21 ?</p> <p>(1) 16.5 (2) 17 (3) 18 (4) 15</p>
12.	<p>If 8 pens cost ₹ 40, what is the cost of 15 pens ?</p> <p>(1) ₹ 75 (2) ₹ 60 (3) ₹ 80 (4) ₹ 90</p>

Question No.	Questions
13.	If a man walks at 5 km/h, he is late by 6 min; if he walks at 6 km/h, he is early by 4 min. Find the distance. (1) 5 km                      (2) 6 km (3) 4 km                      (4) 2 km
14.	Time and work : A can do a job in 10 days, B in 15. Working together, they can finish it in : (1) 6 days                      (2) 5 days (3) 8 days                      (4) 9 days
15.	Which number is a perfect square ? (1) 20                          (2) 49 (3) 45                          (4) 81
16.	The study of fingerprints is known as : (1) Odontology                (2) Serology (3) Dactyloscopy             (4) Ballistics
17.	The chemical used to detect blood stains is : (1) Benzidine                 (2) Acetone (3) Phenolphthalein        (4) Sulfuric acid
18.	Narcoanalysis is used to : (1) Cure insomnia            (2) Enhance DNA (3) Extract truth                (4) Study speech



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Question No.	Questions
19.	<p>The most reliable method for identification is :</p> <p>(1) Dental records                      (2) Fingerprints</p> <p>(3) Blood group                          (4) Footprints</p>
20.	<p>Locard's principle refers to :</p> <p>(1) Chemical evidence handling      (2) Transfer of evidence</p> <p>(3) Crime reconstruction              (4) Time of death estimation</p>
21.	<p>The first country to use forensic science was :</p> <p>(1) USA                                      (2) India</p> <p>(3) China                                    (4) France</p>
22.	<p>DNA is extracted from :</p> <p>(1) Blood only                              (2) Hair only</p> <p>(3) All nucleated cells                    (4) Skin only</p>
23.	<p>What is the full form of FSL ?</p> <p>(1) Forensic Security Lab              (2) Forensic Science Lab</p> <p>(3) Field Service Lab                    (4) None</p>
24.	<p>Which body fluid is used in semen detection ?</p> <p>(1) Urea                                      (2) Prostate fluid</p> <p>(3) Amylase                                (4) Serum</p>
25.	<p>Gunshot residue is tested using :</p> <p>(1) Luminol                                (2) Ninhydrin</p> <p>(3) Griess test                              (4) Kastle-Meyer test</p>



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26.	Tool mark analysis is part of : (1) Chemistry (2) Physics (3) Forensic ballistics (4) Forensic mechanics
27.	The term "Thanatology" refers to : (1) Study of death (2) Study of wounds (3) Study of toxins (4) Study of handwriting
28.	Ridge characteristics in fingerprints are called : (1) Points (2) Minutiae (3) Nodes (4) Spirals
29.	Arson is the forensic study of : (1) Guns (2) Fire (3) Explosives (4) Blood
30.	Superimposition technique is used in : (1) Matching DNA (2) Skull-face identification (3) Document analysis (4) Injury Correlation
31.	Atomic number of carbon is : (1) 4 (2) 6 (3) 12 (4) 14
32.	The most electronegative element is : (1) Oxygen (2) Nitrogen (3) Fluorine (4) Chlorine

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Question No.	Questions
33.	The bond in NaCl is : (1) Covalent (2) Metallic (3) Ionic (4) Hydrogen
34.	Which gas is used in the preparation of ammonia by Haber's process ? (1) Oxygen (2) Nitrogen (3) Methane (4) Carbon dioxide
35.	Which of the following is a strong acid ? (1) HCl (2) CH <sub>3</sub> COOH (3) NaOH (4) NH <sub>4</sub> OH
36.	Which of these is an exothermic reaction ? (1) Photosynthesis (2) Evaporation (3) Combustion (4) Melting
37.	A compound that turns red litmus blue is : (1) Acid (2) Base (3) Salt (4) Neutral
38.	Which of the following has a pH of 7 ? (1) Lemon juice (2) Vinegar (3) Water (4) Soap solution
39.	The number of electrons in a magnesium ion (Mg <sup>2+</sup> ) is : (1) 10 (2) 12 (3) 14 (4) 8



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Question No.	Questions
40.	The IUPAC name of $\text{CH}_4$ is : (1) Ethane (2) Methane (3) Butane (4) Propane
41.	The metal stored in kerosene is : (1) Copper (2) Iron (3) Sodium (4) Zinc
42.	Which of the following is a noble gas ? (1) Nitrogen (2) Oxygen (3) Argon (4) Hydrogen
43.	Which compound is used in dry cleaning ? (1) Toluene (2) Benzene (3) Carbon tetrachloride (4) Acetone
44.	Which vitamin contains cobalt ? (1) Vitamin-C (2) Vitamin-B <sub>1</sub> (3) Vitamin-B <sub>12</sub> (4) Vitamin-D
45.	Which method is used to separate salt from sea water ? (1) Filtration (2) Sublimation (3) Crystallization (4) Distillation
46.	Greenhouse gas among the following is : (1) $\text{N}_2$ (2) $\text{CH}_4$ (3) Ar (4) $\text{O}_2$



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Question No.	Questions
47.	The molar mass of $H_2O$ is : (1) 10 g/mol (2) 16 g/mol (3) 18 g/mol (4) 20 g/mol
48.	An example of a polymer is : (1) Glucose (2) Polyethylene (3) Water (4) NaCl
49.	Which of these metals is liquid at room temperature ? (1) Mercury (2) Iron (3) Aluminium (4) Zinc
50.	Which of the following is amphoteric ? (1) HCl (2) NaOH (3) $Al(OH)_3$ (4) $H_2SO_4$
51.	Electrolysis of water gives : (1) $H_2$ only (2) $O_2$ only (3) $H_2$ and $O_2$ (4) $CO_2$
52.	Which gas turns lime water milky ? (1) $O_2$ (2) $CO_2$ (3) $NH_3$ (4) $H_2$
53.	Which of these is a biodegradable polymer ? (1) Polythene (2) Nylon (3) PHB (4) PVC

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Question No.	Questions
54.	<p>The periodic table is arranged in order of :</p> <p>(1) Mass number                      (2) Atomic number</p> <p>(3) Density                              (4) Size</p>
55.	<p>An alloy of copper and zinc is :</p> <p>(1) Bronze                              (2) Brass</p> <p>(3) Steel                                 (4) Duralumin</p>
56.	<p>Photosynthesis occurs in :</p> <p>(1) Roots                                (2) Stem</p> <p>(3) Leaves                               (4) Flower</p>
57.	<p>The green pigment in plants is :</p> <p>(1) Chlorophyll                      (2) Hemoglobin</p> <p>(3) Xanthophyll                      (4) Anthocyanin</p>
58.	<p>Which plant part absorbs water ?</p> <p>(1) Flower                              (2) Stem</p> <p>(3) Leaf                                 (4) Root</p>
59.	<p>Bryophytes are also called :</p> <p>(1) Seed plants                      (2) Amphibians of plant kingdom</p> <p>(3) Vascular plants                      (4) Algae</p>
60.	<p>Gymnosperms differ from angiosperms in having :</p> <p>(1) Enclosed seeds                      (2) No seeds</p> <p>(3) Naked seeds                        (4) Fruits</p>



Question No.	Questions
61.	Transpiration occurs through : (1) Xylem (2) Phloem (3) Stomata (4) Root hairs
62.	Which is not a plant hormone ? (1) Auxin (2) Gibberellin (3) Estrogen (4) Cytokinin
63.	A plant that completes its cycle in one season is : (1) Annual (2) Biennial (3) Perennial (4) Succulent
64.	The edible part of carrot is : (1) Root (2) Stem (3) Leaf (4) Flower
65.	Which of the following is a xerophyte ? (1) Mango (2) Cactus (3) Rice (4) Lotus
66.	Leaf base, petiole and lamina are parts of a : (1) Stem (2) Leaf (3) Root (4) Flower
67.	Monocots have : (1) Two cotyledons (2) Net-veined leaves (3) Parallel venation (4) Tap root



Question No.	Questions
68.	The binomial name of wheat is : (1) Zea mays (2) Oryza sativa (3) Triticum aestivum (4) Pisum sativum
69.	Plants breathe through : (1) Leaves only (2) Flowers (3) Stomata (4) Lenticels
70.	Plant cells differ from animal cells in having : (1) Cell membrane (2) Cell wall (3) Cytoplasm (4) Ribosomes
71.	The basic unit of life is : (1) Atom (2) Cell (3) Organ (4) Tissue
72.	Mitochondria is known as the : (1) Control center (2) Protein factory (3) Powerhouse (4) Skeleton
73.	Which phylum includes earthworms ? (1) Arthropoda (2) Mollusca (3) Annelida (4) Echinodermata
74.	The vertebral column is found in : (1) Insects (2) Snakes (3) Amoeba (4) Sponges

Question No.	Questions
75.	The enzyme present in saliva is : (1) Pepsin (2) Trypsin (3) Amylase (4) Lipase
76.	RBCs are red due to : (1) Myoglobin (2) Hemoglobin (3) Melanin (4) Albumin
77.	The largest gland in the human body is : (1) Pancreas (2) Liver (3) Thyroid (4) Salivary gland
78.	Human heart has how many chambers ? (1) 2 (2) 3 (3) 4 (4) 5
79.	Which of these is not a connective tissue ? (1) Blood (2) Bone (3) Cartilage (4) Muscle
80.	The disease caused by deficiency of Vitamin D is : (1) Scurvy (2) Rickets (3) Beriberi (4) Night blindness
81.	The respiratory pigment in humans is : (1) Hemoglobin (2) Chlorophyll (3) Albumin (4) Globulin

**SET-X**  
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Question No.	Questions
82.	Excretion in humans is performed by : (1) Lungs (2) Kidneys (3) Liver (4) Stomach
83.	Which part of the brain controls balance ? (1) Cerebrum (2) Cerebellum (3) Medulla (4) Hypothalamus
84.	The organism that carries malaria is : (1) Culex mosquito (2) Aedes mosquito (3) Anopheles mosquito (4) Housefly
85.	Which blood group is universal donor ? (1) A (2) B (3) AB (4) O
86.	SI unit of force is : (1) Joule (2) Newton (3) Pascal (4) Watt
87.	Which instrument is used to measure electric current ? (1) Voltmeter (2) Ammeter (3) Barometer (4) Thermometer
88.	Which of the following is a scalar quantity ? (1) Velocity (2) Force (3) Acceleration (4) Temperature



Question No.	Questions
89.	Speed = distance $\div$ ? (1) Time (2) Force (3) Area (4) Pressure
90.	Light travels fastest in : (1) Air (2) Water (3) Glass (4) Vacuum
91.	Which of these is not a source of renewable energy ? (1) Wind (2) Solar (3) Coal (4) Biomass
92.	A fuse is used to : (1) Increase voltage (2) Protect circuit (3) Store current (4) Break wires
93.	The force that opposes motion is : (1) Tension (2) Thrust (3) Friction (4) Pressure
94.	The boiling point of water in Celsius is : (1) 0°C (2) 50°C (3) 100°C (4) 212°C
95.	Which mirror is used in car-side-view mirrors ? (1) Plane (2) Convex (3) Concave (4) Cylindrical

Question No.	Questions
96.	What is the value of $\sqrt{144}$ ? (1) 10 (2) 11 (3) 12 (4) 13
97.	What is the next prime number after 7 ? (1) 9 (2) 10 (3) 11 (4) 13
98.	If the area of a square is $81 \text{ cm}^2$ , what is its side ? (1) 8 cm (2) 9 cm (3) 10 cm (4) 11 cm
99.	A triangle has angles of $50^\circ$ and $60^\circ$ . What is the third angle ? (1) $60^\circ$ (2) $70^\circ$ (3) $80^\circ$ (4) $90^\circ$
100.	If $3x = 12$ , then $x = ?$ (1) 2 (2) 3 (3) 4 (4) 5



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Code

**B**

Sr. No. 10010

Time : 1½ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_

Date of Birth : \_\_\_\_\_

Father's Name : \_\_\_\_\_

Mother's Name : \_\_\_\_\_

Date of Examination : \_\_\_\_\_

(Signature of the candidate)

(Signature of the Invigilator)

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**SET-X**  
**Code-B**

Question No.	Questions
1.	What is the average of 12, 15, 18, 21 ? (1) 16.5 (2) 17 (3) 18 (4) 15
2.	If 8 pens cost ₹ 40, what is the cost of 15 pens ? (1) ₹ 75 (2) ₹ 60 (3) ₹ 80 (4) ₹ 90
3.	If a man walks at 5 km/h, he is late by 6 min; if he walks at 6 km/h, he is early by 4 min. Find the distance. (1) 5 km (2) 6 km (3) 4 km (4) 2 km
4.	Time and work : A can do a job in 10 days, B in 15. Working together, they can finish it in : (1) 6 days (2) 5 days (3) 8 days (4) 9 days
5.	Which number is a perfect square ? (1) 20 (2) 49 (3) 45 (4) 81
6.	The study of fingerprints is known as : (1) Odontology (2) Serology (3) Dactyloscopy (4) Ballistics



**SET-X**  
**Code-B**

Question No.	Questions
7.	<p>The chemical used to detect blood stains is :</p> <p>(1) Benzidine (2) Acetone</p> <p>(3) Phenolphthalein (4) Sulfuric acid</p>
8.	<p>Narcoanalysis is used to :</p> <p>(1) Cure insomnia (2) Enhance DNA</p> <p>(3) Extract truth (4) Study speech</p>
9.	<p>The most reliable method for identification is :</p> <p>(1) Dental records (2) Fingerprints</p> <p>(3) Blood group (4) Footprints</p>
10.	<p>Locard's principle refers to :</p> <p>(1) Chemical evidence handling (2) Transfer of evidence</p> <p>(3) Crime reconstruction (4) Time of death estimation</p>
11.	<p>Which of these is not a source of renewable energy ?</p> <p>(1) Wind (2) Solar</p> <p>(3) Coal (4) Biomass</p>
12.	<p>A fuse is used to :</p> <p>(1) Increase voltage (2) Protect circuit</p> <p>(3) Store current (4) Break wires</p>

**SET-X**  
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13.	<p>The force that opposes motion is :</p> <p>(1) Tension (2) Thrust</p> <p>(3) Friction (4) Pressure</p>
14.	<p>The boiling point of water in Celsius is :</p> <p>(1) 0°C (2) 50°C</p> <p>(3) 100°C (4) 212°C</p>
15.	<p>Which mirror is used in car-side-view mirrors ?</p> <p>(1) Plane (2) Convex</p> <p>(3) Concave (4) Cylindrical</p>
16.	<p>What is the value of <math>\sqrt{144}</math> ?</p> <p>(1) 10 (2) 11</p> <p>(3) 12 (4) 13</p>
17.	<p>What is the next prime number after 7 ?</p> <p>(1) 9 (2) 10</p> <p>(3) 11 (4) 13</p>
18.	<p>If the area of a square is 81 cm<sup>2</sup>, what is its side ?</p> <p>(1) 8 cm (2) 9 cm</p> <p>(3) 10 cm (4) 11 cm</p>
19.	<p>A triangle has angles of 50° and 60°. What is the third angle ?</p> <p>(1) 60° (2) 70°</p> <p>(3) 80° (4) 90°</p>



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20.	If $3x = 12$ , then $x = ?$ (1) 2 (2) 3 (3) 4 (4) 5
21.	The basic unit of life is : (1) Atom (2) Cell (3) Organ (4) Tissue
22.	Mitochondria is known as the : (1) Control center (2) Protein factory (3) Powerhouse (4) Skeleton
23.	Which phylum includes earthworms ? (1) Arthropoda (2) Mollusca (3) Annelida (4) Echinodermata
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25.	The enzyme present in saliva is : (1) Pepsin (2) Trypsin (3) Amylase (4) Lipase
26.	RBCs are red due to : (1) Myoglobin (2) Hemoglobin (3) Melanin (4) Albumin

PG-EE-July, 2025 (Forensic Science) Code-B

(4)

**SET-X**  
**Code-B**

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27.	The largest gland in the human body is : (1) Pancreas (2) Liver (3) Thyroid (4) Salivary gland
28.	Human heart has how many chambers ? (1) 2 (2) 3 (3) 4 (4) 5
29.	Which of these is not a connective tissue ? (1) Blood (2) Bone (3) Cartilage (4) Muscle
30.	The disease caused by deficiency of Vitamin D is : (1) Scurvy (2) Rickets (3) Beriberi (4) Night blindness
31.	Electrolysis of water gives : (1) H <sub>2</sub> only (2) O <sub>2</sub> only (3) H <sub>2</sub> and O <sub>2</sub> (4) CO <sub>2</sub>
32.	Which gas turns lime water milky ? (1) O <sub>2</sub> (2) CO <sub>2</sub> (3) NH <sub>3</sub> (4) H <sub>2</sub>
33.	Which of these is a biodegradable polymer ? (1) Polythene (2) Nylon (3) PHB (4) PVC



Question No.	Questions
34.	The periodic table is arranged in order of : (1) Mass number (2) Atomic number (3) Density (4) Size
35.	An alloy of copper and zinc is : (1) Bronze (2) Brass (3) Steel (4) Duralumin
36.	Photosynthesis occurs in : (1) Roots (2) Stem (3) Leaves (4) Flower
37.	The green pigment in plants is : (1) Chlorophyll (2) Hemoglobin (3) Xanthophyll (4) Anthocyanin
38.	Which plant part absorbs water ? (1) Flower (2) Stem (3) Leaf (4) Root
39.	Bryophytes are also called : (1) Seed plants (2) Amphibians of plant kingdom (3) Vascular plants (4) Algae
40.	Gymnosperms differ from angiosperms in having : (1) Enclosed seeds (2) No seeds (3) Naked seeds (4) Fruits

**SET-X**  
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Question No.	Questions
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43.	The bond in NaCl is : (1) Covalent (2) Metallic (3) Ionic (4) Hydrogen
44.	Which gas is used in the preparation of ammonia by Haber's process ? (1) Oxygen (2) Nitrogen (3) Methane (4) Carbon dioxide
45.	Which of the following is a strong acid ? (1) HCl (2) $\text{CH}_3\text{COOH}$ (3) NaOH (4) $\text{NH}_4\text{OH}$
46.	Which of these is an exothermic reaction ? (1) Photosynthesis (2) Evaporation (3) Combustion (4) Melting
47.	A compound that turns red litmus blue is : (1) Acid (2) Base (3) Salt (4) Neutral



Question No.	Questions
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50.	The IUPAC name of $CH_4$ is : (1) Ethane (2) Methane (3) Butane (4) Propane
51.	The first country to use forensic science was : (1) USA (2) India (3) China (4) France
52.	DNA is extracted from : (1) Blood only (2) Hair only (3) All nucleated cells (4) Skin only
53.	What is the full form of FSL ? (1) Forensic Security Lab (2) Forensic Science Lab (3) Field Service Lab (4) None
54.	Which body fluid is used in semen detection ? (1) Urea (2) Prostate fluid (3) Amylase (4) Serum

**SET-X**  
**Code-B**

Question No.	Questions
55.	<p>Gunshot residue is tested using :</p> <p>(1) Luminol (2) Ninhydrin (3) Griess test (4) Kastle-Meyer test</p>
56.	<p>Tool mark analysis is part of :</p> <p>(1) Chemistry (2) Physics (3) Forensic ballistics (4) Forensic mechanics</p>
57.	<p>The term "Thanatology" refers to :</p> <p>(1) Study of death (2) Study of wounds (3) Study of toxins (4) Study of handwriting</p>
58.	<p>Ridge characteristics in fingerprints are called :</p> <p>(1) Points (2) Minutiae (3) Nodes (4) Spirals</p>
59.	<p>Arson is the forensic study of :</p> <p>(1) Guns (2) Fire (3) Explosives (4) Blood</p>
60.	<p>Superimposition technique is used in :</p> <p>(1) Matching DNA (2) Skull-face identification (3) Document analysis (4) Injury Correlation</p>
61.	<p>The metal stored in kerosene is :</p> <p>(1) Copper (2) Iron (3) Sodium (4) Zinc</p>



Question No.	Questions
62.	Which of the following is a noble gas ? (1) Nitrogen (2) Oxygen (3) Argon (4) Hydrogen
63.	Which compound is used in dry cleaning ? (1) Toluene (2) Benzene (3) Carbon tetrachloride (4) Acetone
64.	Which vitamin contains cobalt ? (1) Vitamin-C (2) Vitamin-B <sub>1</sub> (3) Vitamin-B <sub>12</sub> (4) Vitamin-D
65.	Which method is used to separate salt from sea water ? (1) Filtration (2) Sublimation (3) Crystallization (4) Distillation
66.	Greenhouse gas among the following is : (1) N <sub>2</sub> (2) CH <sub>4</sub> (3) Ar (4) O <sub>2</sub>
67.	The molar mass of H <sub>2</sub> O is : (1) 10 g/mol (2) 16 g/mol (3) 18 g/mol (4) 20 g/mol
68.	An example of a polymer is : (1) Glucose (2) Polyethylene (3) Water (4) NaCl

**SET-X**  
**Code-B**

Question No.	Questions
69.	Which of these metals is liquid at room temperature ? (1) Mercury (2) Iron (3) Aluminium (4) Zinc
70.	Which of the following is amphoteric ? (1) HCl (2) NaOH (3) Al(OH) <sub>3</sub> (4) H <sub>2</sub> SO <sub>4</sub>
71.	Transpiration occurs through : (1) Xylem (2) Phloem (3) Stomata (4) Root hairs
72.	Which is not a plant hormone ? (1) Auxin (2) Gibberellin (3) Estrogen (4) Cytokinin
73.	A plant that completes its cycle in one season is : (1) Annual (2) Biennial (3) Perennial (4) Succulent
74.	The edible part of carrot is : (1) Root (2) Stem (3) Leaf (4) Flower
75.	Which of the following is a xerophyte ? (1) Mango (2) Cactus (3) Rice (4) Lotus




Question No.	Questions
76.	<p>Leaf base, petiole and lamina are parts of a :</p> <p>(1) Stem (2) Leaf</p> <p>(3) Root (4) Flower</p>
77.	<p>Monocots have :</p> <p>(1) Two cotyledons (2) Net-veined leaves</p> <p>(3) Parallel venation (4) Tap root</p>
78.	<p>The binomial name of wheat is :</p> <p>(1) Zea mays (2) Oryza sativa</p> <p>(3) Triticum aestivum (4) Pisum sativum</p>
79.	<p>Plants breathe through :</p> <p>(1) Leaves only (2) Flowers</p> <p>(3) Stomata (4) Lenticels</p>
80.	<p>Plant cells differ from animal cells in having :</p> <p>(1) Cell membrane (2) Cell wall</p> <p>(3) Cytoplasm (4) Ribosomes</p>
81.	<p>What comes next in the series ? 3, 6, 12, 24, ?</p> <p>(1) 36 (2) 48</p> <p>(3) 60 (4) 40</p>
82.	<p>If <math>3x + 5 = 20</math>, what is the value of x ?</p> <p>(1) 3 (2) 5 (3) 15 (4) 10</p>

**SET-X**  
**Code-B**

Question No.	Questions
83.	<p>A train 120 meters long passes a man walking at 6 km/h in the same direction in 10 seconds. The speed of the train is :</p> <p>(1) 54 km/h                      (2) 60 km/h</p> <p>(3) 66 km/h                      (4) 72 km/h</p>
84.	<p>Which word is different from the others ?</p> <p>(1) Square                      (2) Triangle</p> <p>(3) Circle                      (4) Rectangle</p>
85.	<p>Find the odd one out : 2, 3, 5, 7, 11, 13, 17, 18</p> <p>(1) 7                      (2) 11</p> <p>(3) 18                      (4) 17</p>
86.	<p>If the code for "DOCTOR" is "FQEVQT", what is the code for "NURSE"?</p> <p>(1) PWTUG                      (2) PWTSE</p> <p>(3) MWTUG                      (4) PWSUG</p>
87.	<p>If a box contains 8 red, 6 blue, and 4 green balls, the probability of picking a red ball is :</p> <p>(1) <math>\frac{1}{3}</math>                      (2) <math>\frac{2}{5}</math></p> <p>(3) <math>\frac{4}{9}</math>                      (4) <math>\frac{2}{3}</math></p>



Question No.	Questions
88.	Which is the correct mirror image of the letter "F"? <div style="display: flex; justify-content: space-between;"> <span>(1) </span> <span>(2) f</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) J</span> <span>(4) None</span> </div>
89.	Ramesh is taller than Suresh, Suresh is taller than Mahesh. Who is the tallest ? <div style="display: flex; justify-content: space-between;"> <span>(1) Mahesh</span> <span>(2) Suresh</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) Ramesh</span> <span>(4) Cannot say</span> </div>
90.	Which is not a unit of measurement ? <div style="display: flex; justify-content: space-between;"> <span>(1) Newton</span> <span>(2) Joule</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) Pascal</span> <span>(4) Voltmeter</span> </div>
91.	The respiratory pigment in humans is : <div style="display: flex; justify-content: space-between;"> <span>(1) Hemoglobin</span> <span>(2) Chlorophyll</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) Albumin</span> <span>(4) Globulin</span> </div>
92.	Excretion in humans is performed by : <div style="display: flex; justify-content: space-between;"> <span>(1) Lungs</span> <span>(2) Kidneys</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) Liver</span> <span>(4) Stomach</span> </div>
93.	Which part of the brain controls balance ? <div style="display: flex; justify-content: space-between;"> <span>(1) Cerebrum</span> <span>(2) Cerebellum</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) Medulla</span> <span>(4) Hypothalamus</span> </div>

Question No.	Questions
94.	<p>The organism that carries malaria is :</p> <p>(1) Culex mosquito                      (2) Aedes mosquito</p> <p>(3) Anopheles mosquito              (4) Housefly</p>
95.	<p>Which blood group is universal donor ?</p> <p>(1) A    (2) B</p> <p>(3) AB    (4) O</p>
96.	<p>SI unit of force is :</p> <p>(1) Joule    (2) Newton</p> <p>(3) Pascal    (4) Watt</p>
97.	<p>Which instrument is used to measure electric current ?</p> <p>(1) Voltmeter                                      (2) Ammeter</p> <p>(3) Barometer                                      (4) Thermometer</p>
98.	<p>Which of the following is a scalar quantity ?</p> <p>(1) Velocity    (2) Force</p> <p>(3) Acceleration                                      (4) Temperature</p>
99.	<p>Speed = distance ÷ ?</p> <p>(1) Time    (2) Force</p> <p>(3) Area    (4) Pressure</p>
100.	<p>Light travels fastest in :</p> <p>(1) Air    (2) Water</p> <p>(3) Glass    (4) Vacuum</p>



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**SET-"X"** (Total No. of printed pages : 16)

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**PG-EE-July, 2025 (Forensic Science)**

Sr. No. 10043

Code



Time : 1½ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_

Date of Birth : \_\_\_\_\_

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. All questions are compulsory.
2. The candidates must return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour 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.
3. 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.
4. Question Booklet along-with answer key of all the A,B,C and D code shall be got uploaded on the University Website immediately 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 students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case will be considered.
5. The candidate **MUST NOT** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question book-let itself. Answers **MUST NOT** be ticked in the Question book-let.
6. **There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.**
7. Use only Black or Blue **BALL POINT PEN** of good quality in the OMR Answer-Sheet.
8. **BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOK-LET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.**



Question No.	Questions
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2.	<p>Which of the following is a noble gas ?</p> <p>(1) Nitrogen (2) Oxygen</p> <p>(3) Argon (4) Hydrogen</p>
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5.	<p>Which method is used to separate salt from sea water ?</p> <p>(1) Filtration (2) Sublimation</p> <p>(3) Crystallization (4) Distillation</p>
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7.	<p>The molar mass of H<sub>2</sub>O is :</p> <p>(1) 10 g/mol (2) 16 g/mol</p> <p>(3) 18 g/mol (4) 20 g/mol</p>





Question No.	Questions
8.	An example of a polymer is : (1) Glucose (2) Polyethylene (3) Water (4) NaCl
9.	Which of these metals is liquid at room temperature ? (1) Mercury (2) Iron (3) Aluminium (4) Zinc
10.	Which of the following is amphoteric ? (1) HCl (2) NaOH (3) Al(OH) <sub>3</sub> (4) H <sub>2</sub> SO <sub>4</sub>
11.	The first country to use forensic science was : (1) USA (2) India (3) China (4) France
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Question No.	Questions
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20.	<p>Superimposition technique is used in :</p> <p>(1) Matching DNA (2) Skull-face identification (3) Document analysis (4) Injury Correlation</p>
21.	<p>What comes next in the series ? 3, 6, 12, 24, ?</p> <p>(1) 36 (2) 48 (3) 60 (4) 40</p>



Question No.	Questions
22.	<p>If <math>3x + 5 = 20</math>, what is the value of <math>x</math> ?</p> <p>(1) 3 (2) 5 (3) 15 (4) 10</p>
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25.	<p>Find the odd one out : 2, 3, 5, 7, 11, 13, 17, 18</p> <p>(1) 7 (2) 11 (3) 18 (4) 17</p>
26.	<p>If the code for "DOCTOR" is "FQEVQT", what is the code for "NURSE"?</p> <p>(1) PWTUG (2) PWTSE (3) MWTUG (4) PWSUG</p>

Question No.	Questions
27.	<p>If a box contains 8 red, 6 blue, and 4 green balls, the probability of picking a red ball is :</p> <p>(1) <math>\frac{1}{3}</math> (2) <math>\frac{2}{5}</math> (3) <math>\frac{4}{9}</math> (4) <math>\frac{2}{3}</math></p>
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29.	<p>Ramesh is taller than Suresh, Suresh is taller than Mahesh. Who is the tallest ?</p> <p>(1) Mahesh (2) Suresh (3) Ramesh (4) Cannot say</p>
30.	<p>Which is not a unit of measurement ?</p> <p>(1) Newton (2) Joule (3) Pascal (4) Voltmeter</p>
31.	<p>Which of these is not a source of renewable energy ?</p> <p>(1) Wind (2) Solar (3) Coal (4) Biomass</p>
32.	<p>A fuse is used to :</p> <p>(1) Increase voltage (2) Protect circuit (3) Store current (4) Break wires</p>



Question No.	Questions
33.	The force that opposes motion is : (1) Tension (2) Thrust (3) Friction (4) Pressure
34.	The boiling point of water in Celsius is : (1) 0°C (2) 50°C (3) 100°C (4) 212°C
35.	Which mirror is used in car-side-view mirrors ? (1) Plane (2) Convex (3) Concave (4) Cylindrical
36.	What is the value of $\sqrt{144}$ ? (1) 10 (2) 11 (3) 12 (4) 13
37.	What is the next prime number after 7 ? (1) 9 (2) 10 (3) 11 (4) 13
38.	If the area of a square is 81 cm <sup>2</sup> , what is its side ? (1) 8 cm (2) 9 cm (3) 10 cm (4) 11 cm
39.	A triangle has angles of 50° and 60°. What is the third angle ? (1) 60° (2) 70° (3) 80° (4) 90°

**SET-X**  
**Code-C**

Question No.	Questions
40.	If $3x = 12$ , then $x = ?$ (1) 2 (2) 3 (3) 4 (4) 5
41.	Transpiration occurs through : (1) Xylem (2) Phloem (3) Stomata (4) Root hairs
42.	Which is not a plant hormone ? (1) Auxin (2) Gibberellin (3) Estrogen (4) Cytokinin
43.	A plant that completes its cycle in one season is : (1) Annual (2) Biennial (3) Perennial (4) Succulent
44.	The edible part of carrot is : (1) Root (2) Stem (3) Leaf (4) Flower
45.	Which of the following is a xerophyte ? (1) Mango (2) Cactus (3) Rice (4) Lotus
46.	Leaf base, petiole and lamina are parts of a : (1) Stem (2) Leaf (3) Root (4) Flower



Question No.	Questions
47.	Monocots have : (1) Two cotyledons (2) Net-veined leaves (3) Parallel venation (4) Tap root
48.	The binomial name of wheat is : (1) Zea mays (2) Oryza sativa (3) Triticum aestivum (4) Pisum sativum
49.	Plants breathe through : (1) Leaves only (2) Flowers (3) Stomata (4) Lenticels
50.	Plant cells differ from animal cells in having : (1) Cell membrane (2) Cell wall (3) Cytoplasm (4) Ribosomes
51.	Atomic number of carbon is : (1) 4 (2) 6 (3) 12 (4) 14
52.	The most electronegative element is : (1) Oxygen (2) Nitrogen (3) Fluorine (4) Chlorine
53.	The bond in NaCl is : (1) Covalent (2) Metallic (3) Ionic (4) Hydrogen

**SET-X**  
**Code-C**

Question No.	Questions
54.	Which gas is used in the preparation of ammonia by Haber's process ? (1) Oxygen (2) Nitrogen (3) Methane (4) Carbon dioxide
55.	Which of the following is a strong acid ? (1) HCl (2) $\text{CH}_3\text{COOH}$ (3) NaOH (4) $\text{NH}_4\text{OH}$
56.	Which of these is an exothermic reaction ? (1) Photosynthesis (2) Evaporation (3) Combustion (4) Melting
57.	A compound that turns red litmus blue is : (1) Acid (2) Base (3) Salt (4) Neutral
58.	Which of the following has a pH of 7 ? (1) Lemon juice (2) Vinegar (3) Water (4) Soap solution
59.	The number of electrons in a magnesium ion ( $\text{Mg}^{2+}$ ) is : (1) 10 (2) 12 (3) 14 (4) 8
60.	The IUPAC name of $\text{CH}_4$ is : (1) Ethane (2) Methane (3) Butane (4) Propane



Question No.	Questions
61.	The basic unit of life is : (1) Atom (2) Cell (3) Organ (4) Tissue
62.	Mitochondria is known as the : (1) Control center (2) Protein factory (3) Powerhouse (4) Skeleton
63.	Which phylum includes earthworms ? (1) Arthropoda (2) Mollusca (3) Annelida (4) Echinodermata
64.	The vertebral column is found in : (1) Insects (2) Snakes (3) Amoeba (4) Sponges
65.	The enzyme present in saliva is : (1) Pepsin (2) Trypsin (3) Amylase (4) Lipase
66.	RBCs are red due to : (1) Myoglobin (2) Hemoglobin (3) Melanin (4) Albumin
67.	The largest gland in the human body is : (1) Pancreas (2) Liver (3) Thyroid (4) Salivary gland

Question No.	Questions
68.	Human heart has how many chambers ? (1) 2 (2) 3 (3) 4 (4) 5
69.	Which of these is not a connective tissue ? (1) Blood (2) Bone (3) Cartilage (4) Muscle
70.	The disease caused by deficiency of Vitamin D is : (1) Scurvy (2) Rickets (3) Beriberi (4) Night blindness
71.	The respiratory pigment in humans is : (1) Hemoglobin (2) Chlorophyll (3) Albumin (4) Globulin
72.	Excretion in humans is performed by : (1) Lungs (2) Kidneys (3) Liver (4) Stomach
73.	Which part of the brain controls balance ? (1) Cerebrum (2) Cerebellum (3) Medulla (4) Hypothalamus
74.	The organism that carries malaria is : (1) Culex mosquito (2) Aedes mosquito (3) Anopheles mosquito (4) Housefly



Question No.	Questions
75.	Which blood group is universal donor ? (1) A (2) B (3) AB (4) O
76.	SI unit of force is : (1) Joule (2) Newton (3) Pascal (4) Watt
77.	Which instrument is used to measure electric current ? (1) Voltmeter (2) Ammeter (3) Barometer (4) Thermometer
78.	Which of the following is a scalar quantity ? (1) Velocity (2) Force (3) Acceleration (4) Temperature
79.	Speed = distance ÷ ? (1) Time (2) Force (3) Area (4) Pressure
80.	Light travels fastest in : (1) Air (2) Water (3) Glass (4) Vacuum
81.	What is the average of 12, 15, 18, 21 ? (1) 16.5 (2) 17 (3) 18 (4) 15

Question No.	Questions
82.	<p>If 8 pens cost ₹ 40, what is the cost of 15 pens ?.</p> <p>(1) ₹ 75                      (2) ₹ 60</p> <p>(3) ₹ 80                      (4) ₹ 90</p>
83.	<p>If a man walks at 5 km/h, he is late by 6 min; if he walks at 6 km/h, he is early by 4 min. Find the distance.</p> <p>(1) 5 km                      (2) 6 km</p> <p>(3) 4 km                      (4) 2 km</p>
84.	<p>Time and work : A can do a job in 10 days, B in 15. Working together, they can finish it in :</p> <p>(1) 6 days                      (2) 5 days</p> <p>(3) 8 days                      (4) 9 days</p>
85.	<p>Which number is a perfect square ?</p> <p>(1) 20                              (2) 49</p> <p>(3) 45                              (4) 81</p>
86.	<p>The study of fingerprints is known as :</p> <p>(1) Odontology                      (2) Serology</p> <p>(3) Dactyloscopy                      (4) Ballistics</p>
87.	<p>The chemical used to detect blood stains is :</p> <p>(1) Benzidine                      (2) Acetone</p> <p>(3) Phenolphthalein                      (4) Sulfuric acid</p>



Question No.	Questions
88.	<p>Narcoanalysis is used to :</p> <p>(1) Cure insomnia                      (2) Enhance DNA</p> <p>(3) Extract truth                      (4) Study speech</p>
89.	<p>The most reliable method for identification is :</p> <p>(1) Dental records                      (2) Fingerprints</p> <p>(3) Blood group                      (4) Footprints</p>
90.	<p>Locard's principle refers to :</p> <p>(1) Chemical evidence handling      (2) Transfer of evidence</p> <p>(3) Crime reconstruction              (4) Time of death estimation</p>
91.	<p>Electrolysis of water gives :</p> <p>(1) H<sub>2</sub> only                      (2) O<sub>2</sub> only</p> <p>(3) H<sub>2</sub> and O<sub>2</sub>                      (4) CO<sub>2</sub></p>
92.	<p>Which gas turns lime water milky ?</p> <p>(1) O<sub>2</sub>                      (2) CO<sub>2</sub></p> <p>(3) NH<sub>3</sub>                      (4) H<sub>2</sub></p>
93.	<p>Which of these is a biodegradable polymer ?</p> <p>(1) Polythene                      (2) Nylon</p> <p>(3) PHB                      (4) PVC</p>
94.	<p>The periodic table is arranged in order of :</p> <p>(1) Mass number                      (2) Atomic number</p> <p>(3) Density                      (4) Size</p>

Question No.	Questions
95.	<p>An alloy of copper and zinc is :</p> <p>(1) Bronze (2) Brass</p> <p>(3) Steel (4) Duralumin</p>
96.	<p>Photosynthesis occurs in :</p> <p>(1) Roots (2) Stem</p> <p>(3) Leaves (4) Flower</p>
97.	<p>The green pigment in plants is :</p> <p>(1) Chlorophyll (2) Hemoglobin</p> <p>(3) Xanthophyll (4) Anthocyanin</p>
98.	<p>Which plant part absorbs water ?</p> <p>(1) Flower (2) Stem</p> <p>(3) Leaf (4) Root</p>
99.	<p>Bryophytes are also called :</p> <p>(1) Seed plants (2) Amphibians of plant kingdom</p> <p>(3) Vascular plants (4) Algae</p>
100.	<p>Gymnosperms differ from angiosperms in having :</p> <p>(1) Enclosed seeds (2) No seeds</p> <p>(3) Naked seeds (4) Fruits</p>



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**PG-EE-July, 2025 (Forensic Science)**

Code

**D**

Sr. No. 10012

Time : 1½ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_

Date of Birth : \_\_\_\_\_

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. All questions are compulsory.
2. The candidates must return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour 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.
3. 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.
4. Question Booklet along-with answer key of all the A,B,C and D code shall be got uploaded on the University Website immediately 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 students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case will be considered.
5. The candidate MUST NOT do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question book-let itself. Answers MUST NOT be ticked in the Question book-let.
6. There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
7. Use only Black or Blue **BALL POINT PEN** of good quality in the OMR Answer-Sheet.
8. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOK-LET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.



Question No.	Questions
1.	The basic unit of life is : (1) Atom (2) Cell (3) Organ (4) Tissue
2.	Mitochondria is known as the : (1) Control center (2) Protein factory (3) Powerhouse (4) Skeleton
3.	Which phylum includes earthworms ? (1) Arthropoda (2) Mollusca (3) Annelida (4) Echinodermata
4.	The vertebral column is found in : (1) Insects (2) Snakes (3) Amoeba (4) Sponges
5.	The enzyme present in saliva is : (1) Pepsin (2) Trypsin (3) Amylase (4) Lipase
6.	RBCs are red due to : (1) Myoglobin (2) Hemoglobin (3) Melanin (4) Albumin
7.	The largest gland in the human body is : (1) Pancreas (2) Liver (3) Thyroid (4) Salivary gland



Question No.	Questions
8.	Human heart has how many chambers ? (1) 2 (2) 3 (3) 4 (4) 5
9.	Which of these is not a connective tissue ? (1) Blood (2) Bone (3) Cartilage (4) Muscle
10.	The disease caused by deficiency of Vitamin D is : (1) Scurvy (2) Rickets (3) Beriberi (4) Night blindness
11.	Electrolysis of water gives : (1) H <sub>2</sub> only (2) O <sub>2</sub> only (3) H <sub>2</sub> and O <sub>2</sub> (4) CO <sub>2</sub>
12.	Which gas turns lime water milky ? (1) O <sub>2</sub> (2) CO <sub>2</sub> (3) NH <sub>3</sub> (4) H <sub>2</sub>
13.	Which of these is a biodegradable polymer ? (1) Polythene (2) Nylon (3) PHB (4) PVC
14.	The periodic table is arranged in order of : (1) Mass number (2) Atomic number (3) Density (4) Size

**SET-X**  
**Code-D**

Question No.	Questions
15.	An alloy of copper and zinc is : (1) Bronze (2) Brass (3) Steel (4) Duralumin
16.	Photosynthesis occurs in : (1) Roots (2) Stem (3) Leaves (4) Flower
17.	The green pigment in plants is : (1) Chlorophyll (2) Hemoglobin (3) Xanthophyll (4) Anthocyanin
18.	Which plant part absorbs water ? (1) Flower (2) Stem (3) Leaf (4) Root
19.	Bryophytes are also called : (1) Seed plants (2) Amphibians of plant kingdom (3) Vascular plants (4) Algae
20.	Gymnosperms differ from angiosperms in having : (1) Enclosed seeds (2) No seeds (3) Naked seeds (4) Fruits
21.	Atomic number of carbon is : (1) 4 (2) 6 (3) 12 (4) 14



Question No.	Questions
22.	The most electronegative element is : (1) Oxygen (2) Nitrogen (3) Fluorine (4) Chlorine
23.	The bond in NaCl is : (1) Covalent (2) Metallic (3) Ionic (4) Hydrogen
24.	Which gas is used in the preparation of ammonia by Haber's process ? (1) Oxygen (2) Nitrogen (3) Methane (4) Carbon dioxide
25.	Which of the following is a strong acid ? (1) HCl (2) CH <sub>3</sub> COOH (3) NaOH (4) NH <sub>4</sub> OH
26.	Which of these is an exothermic reaction ? (1) Photosynthesis (2) Evaporation (3) Combustion (4) Melting
27.	A compound that turns red litmus blue is : (1) Acid (2) Base (3) Salt (4) Neutral
28.	Which of the following has a pH of 7 ? (1) Lemon juice (2) Vinegar (3) Water (4) Soap solution

<b>Question No.</b>	<b>Questions</b>
<b>29.</b>	The number of electrons in a magnesium ion ( $\text{Mg}^{2+}$ ) is : <div style="display: flex; justify-content: space-between;"> <span>(1) 10</span> <span>(2) 12</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) 14</span> <span>(4) 8</span> </div>
<b>30.</b>	The IUPAC name of $\text{CH}_4$ is : <div style="display: flex; justify-content: space-between;"> <span>(1) Ethane</span> <span>(2) Methane</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) Butane</span> <span>(4) Propane</span> </div>
<b>31.</b>	What is the average of 12, 15, 18, 21 ? <div style="display: flex; justify-content: space-between;"> <span>(1) 16.5</span> <span>(2) 17</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) 18</span> <span>(4) 15</span> </div>
<b>32.</b>	If 8 pens cost ₹ 40, what is the cost of 15 pens ? <div style="display: flex; justify-content: space-between;"> <span>(1) ₹ 75</span> <span>(2) ₹ 60</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) ₹ 80</span> <span>(4) ₹ 90</span> </div>
<b>33.</b>	If a man walks at 5 km/h, he is late by 6 min; if he walks at 6 km/h, he is early by 4 min. Find the distance. <div style="display: flex; justify-content: space-between;"> <span>(1) 5 km</span> <span>(2) 6 km</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) 4 km</span> <span>(4) 2 km</span> </div>
<b>34.</b>	Time and work : A can do a job in 10 days, B in 15. Working together, they can finish it in : <div style="display: flex; justify-content: space-between;"> <span>(1) 6.days</span> <span>(2) 5 days</span> </div> <div style="display: flex; justify-content: space-between;"> <span>(3) 8 days</span> <span>(4) 9 days</span> </div>



Question No.	Questions
35.	Which number is a perfect square ? (1) 20 (2) 49 (3) 45 (4) 81
36.	The study of fingerprints is known as : (1) Odontology (2) Serology (3) Dactyloscopy (4) Ballistics
37.	The chemical used to detect blood stains is : (1) Benzidine (2) Acetone (3) Phenolphthalein (4) Sulfuric acid
38.	Narcoanalysis is used to : (1) Cure insomnia (2) Enhance DNA (3) Extract truth (4) Study speech
39.	The most reliable method for identification is : (1) Dental records (2) Fingerprints (3) Blood group (4) Footprints
40.	Locard's principle refers to : (1) Chemical evidence handling (2) Transfer of evidence (3) Crime reconstruction (4) Time of death estimation

Question No.	Questions
41.	Which of these is not a source of renewable energy ? (1) Wind (2) Solar (3) Coal (4) Biomass
42.	A fuse is used to : (1) Increase voltage (2) Protect circuit (3) Store current (4) Break wires
43.	The force that opposes motion is : (1) Tension (2) Thrust (3) Friction (4) Pressure
44.	The boiling point of water in Celsius is : (1) 0°C (2) 50°C (3) 100°C (4) 212°C
45.	Which mirror is used in car-side-view mirrors ? (1) Plane (2) Convex (3) Concave (4) Cylindrical
46.	What is the value of $\sqrt{144}$ ? (1) 10 (2) 11 (3) 12 (4) 13
47.	What is the next prime number after 7 ? (1) 9 (2) 10 (3) 11 (4) 13





Question No.	Questions
55.	Which of the following is a xerophyte ? (1) Mango (2) Cactus (3) Rice (4) Lotus
56.	Leaf base, petiole and lamina are parts of a : (1) Stem (2) Leaf (3) Root (4) Flower
57.	Monocots have : (1) Two cotyledons (2) Net-veined leaves (3) Parallel venation (4) Tap root
58.	The binomial name of wheat is : (1) Zea mays (2) Oryza sativa (3) Triticum aestivum (4) Pisum sativum
59.	Plants breathe through : (1) Leaves only (2) Flowers (3) Stomata (4) Lenticels
60.	Plant cells differ from animal cells in having : (1) Cell membrane (2) Cell wall (3) Cytoplasm (4) Ribosomes
61.	The respiratory pigment in humans is : (1) Hemoglobin (2) Chlorophyll (3) Albumin (4) Globulin



Question No.	Questions
62.	Excretion in humans is performed by : (1) Lungs (2) Kidneys (3) Liver (4) Stomach
63.	Which part of the brain controls balance ? (1) Cerebrum (2) Cerebellum (3) Medulla (4) Hypothalamus
64.	The organism that carries malaria is : (1) Culex mosquito (2) Aedes mosquito (3) Anopheles mosquito (4) Housefly
65.	Which blood group is universal donor ? (1) A (2) B (3) AB (4) O
66.	SI unit of force is : (1) Joule (2) Newton (3) Pascal (4) Watt
67.	Which instrument is used to measure electric current ? (1) Voltmeter (2) Ammeter (3) Barometer (4) Thermometer
68.	Which of the following is a scalar quantity ? (1) Velocity (2) Force (3) Acceleration (4) Temperature

Question No.	Questions
69.	Speed = distance ÷ ? (1) Time (2) Force (3) Area (4) Pressure
70.	Light travels fastest in : (1) Air (2) Water (3) Glass (4) Vacuum
71.	The metal stored in kerosene is : (1) Copper (2) Iron (3) Sodium (4) Zinc
72.	Which of the following is a noble gas ? (1) Nitrogen (2) Oxygen (3) Argon (4) Hydrogen
73.	Which compound is used in dry cleaning ? (1) Toluene (2) Benzene (3) Carbon tetrachloride (4) Acetone
74.	Which vitamin contains cobalt ? (1) Vitamin-C (2) Vitamin-B <sub>1</sub> (3) Vitamin-B <sub>12</sub> (4) Vitamin-D
75.	Which method is used to separate salt from sea water ? (1) Filtration (2) Sublimation (3) Crystallization (4) Distillation





Question No.	Questions
76.	Greenhouse gas among the following is : (1) $N_2$ (2) $CH_4$ (3) Ar (4) $O_2$
77.	The molar mass of $H_2O$ is : (1) 10 g/mol (2) 16 g/mol (3) 18 g/mol (4) 20 g/mol
78.	An example of a polymer is : (1) Glucose (2) Polyethylene (3) Water (4) NaCl
79.	Which of these metals is liquid at room temperature ? (1) Mercury (2) Iron (3) Aluminium (4) Zinc
80.	Which of the following is amphoteric ? (1) HCl (2) NaOH (3) $Al(OH)_3$ (4) $H_2SO_4$
81.	The first country to use forensic science was : (1) USA (2) India (3) China (4) France
82.	DNA is extracted from : (1) Blood only (2) Hair only (3) All nucleated cells (4) Skin only

Question No.	Questions
83.	What is the full form of FSL ? (1) Forensic Security Lab      (2) Forensic Science Lab (3) Field Service Lab      (4) None
84.	Which body fluid is used in semen detection ? (1) Urea      (2) Prostate fluid (3) Amylase      (4) Serum
85.	Gunshot residue is tested using : (1) Luminol      (2) Ninhydrin (3) Griess test      (4) Kastle-Meyer test
86.	Tool mark analysis is part of : (1) Chemistry      (2) Physics (3) Forensic ballistics      (4) Forensic mechanics
87.	The term "Thanatology" refers to : (1) Study of death      (2) Study of wounds (3) Study of toxins      (4) Study of handwriting
88.	Ridge characteristics in fingerprints are called : (1) Points      (2) Minutiae (3) Nodes      (4) Spirals
89.	Arson is the forensic study of : (1) Guns      (2) Fire (3) Explosives      (4) Blood



Question No.	Questions
90.	<p>Superimposition technique is used in :</p> <p>(1) Matching DNA                      (2) Skull-face identification</p> <p>(3) Document analysis                (4) Injury Correlation</p>
91.	<p>What comes next in the series ? 3, 6, 12, 24, ?</p> <p>(1) 36                                      (2) 48</p> <p>(3) 60                                      (4) 40</p>
92.	<p>If <math>3x + 5 = 20</math>, what is the value of x ?</p> <p>(1) 3                                        (2) 5</p> <p>(3) 15                                      (4) 10</p>
93.	<p>A train 120 meters long passes a man walking at 6 km/h in the same direction in 10 seconds. The speed of the train is :</p> <p>(1) 54 km/h                              (2) 60 km/h</p> <p>(3) 66 km/h                              (4) 72 km/h</p>
94.	<p>Which word is different from the others ?</p> <p>(1) Square                                (2) Triangle</p> <p>(3) Circle                                 (4) Rectangle</p>
95.	<p>Find the odd one out : 2, 3, 5, 7, 11, 13, 17, 18</p> <p>(1) 7                      (2) 11                      (3) 18                      (4) 17</p>

**SET-X**  
**Code-D**

Question No.	Questions
96.	<p>If the code for "DOCTOR" is "FQEVQT", what is the code for "NURSE"?</p> <p>(1) PWTUG (2) PWTSE</p> <p>(3) MWTUG (4) PWSUG</p>
97.	<p>If a box contains 8 red, 6 blue, and 4 green balls, the probability of picking a red ball is :</p> <p>(1) <math>\frac{1}{3}</math> (2) <math>\frac{2}{5}</math></p> <p>(3) <math>\frac{4}{9}</math> (4) <math>\frac{2}{3}</math></p>
98.	<p>Which is the correct mirror image of the letter "F"?</p> <p>(1)  (2) <i>f</i></p> <p>(3)  (4) None</p>
99.	<p>Ramesh is taller than Suresh, Suresh is taller than Mahesh. Who is the tallest ?</p> <p>(1) Mahesh (2) Suresh</p> <p>(3) Ramesh (4) Cannot say</p>
100.	<p>Which is not a unit of measurement ?</p> <p>(1) Newton (2) Joule</p> <p>(3) Pascal (4) Voltmeter</p>



**Answer keys of M.Sc. (Forensic Science) entrance exam dated 15.07.2025**

Q. NO.	A	B	C	D
1	2	1	3	2
2	2	1	3	3
3	1	1	3	3
4	3	2	3	2
5	3	2	3	3
6	1	3	2	2
7	3	1	3	2
8	4	3	2	3
9	3	2	1	4
10	4	2	3	2
11	1	3	3	3
12	1	2	3	2
13	1	3	2	3
14	2	3	2	2
15	2	2	3	2
16	3	3	3	3
17	1	3	1	1
18	3	2	2	4
19	2	2	2	2
20	2	3	2	3
21	3	2	2	2
22	3	3	2	3
23	2	3	1	3
24	2	2	3	2
25	3	3	3	1
26	3	2	1	3
27	1	2	3	2
28	2	3	4	3
29	2	4	3	1
30	2	2	4	2
31	2	3	3	1
32	3	2	2	1
33	3	3	3	1
34	2	2	3	2
35	1	2	2	2
36	3	3	3	3
37	2	1	3	1
38	3	4	2	3
39	1	2	2	2
40	2	3	3	2
41	3	2	3	3
42	3	3	3	2
43	3	3	1	3
44	3	2	1	3
45	3	1	2	2
46	2	3	2	3
47	3	2	3	3
48	2	3	3	2
49	1	1	3	2
50	3	2	2	3

**Answer keys of M.Sc. (Forensic Science) entrance exam dated 15.07.2025**

Q. NO.	A	B	C	D
51	3	3	2	3
52	2	3	3	3
53	3	2	3	1
54	2	2	2	1
55	2	3	1	2
56	3	3	3	2
57	1	1	2	3
58	4	2	3	3
59	2	2	1	3
60	3	2	2	2
61	3	3	2	1
62	3	3	3	2
63	1	3	3	2
64	1	3	2	3
65	2	3	3	4
66	2	2	2	2
67	3	3	2	2
68	3	2	3	4
69	3	1	4	1
70	2	3	2	4
71	2	3	1	3
72	3	3	2	3
73	3	1	2	3
74	2	1	3	3
75	3	2	4	3
76	2	2	2	2
77	2	3	2	3
78	3	3	4	2
79	4	3	1	1
80	2	2	4	3
81	1	2	1	3
82	2	2	1	3
83	2	1	1	2
84	3	3	2	2
85	4	3	2	3
86	2	1	3	3
87	2	3	1	1
88	4	4	3	2
89	1	3	2	2
90	4	4	2	2
91	3	1	3	2
92	2	2	2	2
93	3	2	3	1
94	3	3	2	3
95	2	4	2	3
96	3	2	3	1
97	3	2	1	3
98	2	4	4	4
99	2	1	2	3
100	3	4	3	4