Test Booklet No.

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प्रश्नपत्रिका क्र. Paper-II FORENSIC SCIENCE

POMENSI	J DOIENGE
Signature and Name of Invigilator	Seat No.
1. (Signature)	(In figures as in Admit Card)
(Name)	Seat No.
2. (Signature)	(In words)
(Name)	OMR Sheet No.
AUG - 39215	(To be filled by the Candidate)
Time Allowed: 1¼ Hours]	[Maximum Marks: 100
Number of Pages in this Booklet : 16	Number of Questions in this Booklet: 50
Instructions for the Candidates 1. Write your Seat No. and OMR Sheet No. in the space provided on the top of this page. 2. This paper consists of 50 objective type questions. Each question will carry two marks. All questions of Paper-II will be compulsory, covering entire syllabus (including all electives, without options). 3. At the commencement of examination, the question booklet will be given to the student. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as follows: (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal or open booklet. (ii) Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to missing pages/ questions or questions repeated or not in serial order or any other discrepancy should not be accepted and correct booklet should be obtained from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given. The same may please be noted. (iii) After this verification is over, the OMR Sheet Number should be entered on this Test Booklet. 4. Each question has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item. Example: where (C) is the correct response.	विद्यार्थ्यांसाठी महत्त्वाच्या सूचना 1. परिक्षार्थींनी आपला आसन क्रमांक या पृष्ठावरील वरच्या कोप-यात लिहावा. तसेच आपणांस दिलेल्या उत्तरपत्रिकंचा क्रमांक त्याखाली लिहावा. तसेच आपणांस दिलेल्या उत्तरपत्रिकंचा क्रमांक त्याखाली लिहावा. 2. सदर प्रश्नपत्रिकंत 50 बहुपर्याय प्रश्न आहेत. प्रत्येक प्रश्नास दोन गुण आहेत. या प्रश्नपत्रिकंतील सर्व प्रश्न सोडिवणे अनिवार्य आहे. सदरचे प्रश्न हे या विषयाच्या संपूर्ण अभ्यासक्रमावर आधारित आहेत. 3. परीक्षा सुरू झाल्यावर विद्यार्थ्याला प्रश्नपत्रिका दिली जाईल. सुरुवातीच्या 5 मिनीटामध्ये आपण सदर प्रश्नपत्रिका उघडून खालील बाबी अवश्य तपासून पहाव्यात. (i) प्रश्नपत्रिका उघडण्यासाठी प्रश्नपत्रिकंवर लावलेले सील उघडावे. सील नसलेली किंवा सील उघडलेली प्रश्नपत्रिकंची एकूण पृष्ठे तसेच प्रश्नपत्रिकंतील एकूण प्रश्नांची संख्या पडताळून पहावी. पृष्ठे कमी असलेली किंवा इतर त्रुटी असलेली प्रश्नांचा चूकीचा क्रम असलेली किंवा इतर त्रुटी असलेली सदीष प्रश्नपत्रिका सुरुवातीच्या 5 मिनिटातच पर्यवेक्षकाला परत देऊन दुसरी प्रश्नपत्रिका मागवून च्यावी. त्यानंतर प्रश्नपत्रिका बदलून मिळणार नाही तसेच वेळही वाढवून मिळणार नाही याची कृपया विद्यार्थांनी नोंद च्यावी. (iii) वरीलप्रमाणे सर्व पडताळून पहिल्यानंतरच प्रश्नपत्रिकंचर ओ.एम.आर. उत्तरपत्रिकंचा नंबर लिहावा. 4. प्रत्येक प्रश्नासाठी (A), (B), (C) आणि (D) अशी चार विकल्प उत्तरे दिली आहेत. त्यातील योग्य उत्तराचा रकाना खाली दर्शविल्याप्रमाणे ठळकपणे काळा/निळा करावा.
 Your responses to the items are to be indicated in the OMR Sheet given inside the Booklet only. If you mark at any place other than in the circle in the OMR Sheet, it will not be evaluated. Read instructions given inside carefully. Rough Work is to be done at the end of this booklet. If you write your Name, Seat Number, Phone Number or put any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, you will render yourself liable to disqualification. You have to return original OMR Sheet to the invigilator at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry the Test Booklet and duplicate copy of OMR Sheet on conclusion of examination. 	उदा. : जर (C) हे योग्य उत्तर असेल तर. A B D 5. या प्रश्नपत्रिकेतील प्रश्नांची उत्तरे ओ.एम.आर. उत्तरपत्रिकेतच दर्शवावीत. इतर ठिकाणी लिहीलेली उत्तरे तपासली जाणार नाहीत. 6. आत दिलेल्या सूचना काळजीपूर्वक वाचाव्यात. 7. प्रश्नपत्रिकेच्या शेवटी जोडलेल्या कोन्या पानावरच कच्चे काम करावे. 8. जर आपण ओ.एम.आर. वर नमूद केलेल्या ठिकाणा व्यतिरीक्त इतर कोठेही नाव, आसन क्रमांक, फोन नंबर किंवा ओळख पटेल अशी कोणतीही खूण केलेली आढळून आल्यास अथवा असभ्य भाषेचा वापर किंवा इतर गैरमार्गांचा अवलंब केल्यास विद्यार्थ्यांला परीक्षेस अपात्र ठरविण्यात येईल. 9. परीक्षा संपत्थानंतर विद्यार्थ्यांला परीक्षेस अपात्र ठरतिण्यात येईल. परत करणे आवश्यक आहे. तथापी, प्रश्नपत्रिका व ओ.एम.आर. उत्तरपत्रिकेची द्वितीय प्रत आपल्याबरोबर नेण्यास विद्यार्थ्यांना परवानगी आहे.
10. Use only Blue/Black Ball point pen. 11. Use of any calculator or log table, etc., is prohibited. 12. There is no negative marking for incorrect answers.	 10. फक्त निळ्या किंवा काळ्या बॉल पेनचाच वापर करावा. 11. कॅलक्युलेटर किंवा लॉग टेबल वापरण्यास परवानगी नाही. 12. चुकीच्या उत्तरासाठी गुण कपात केली जाणार नाही.

AUG - 39215/II

Forensic Science Paper II

Time Allowed: 75 Minutes] [Maximum Marks: 100

Note: This Paper contains Fifty (50) multiple choice questions. Each question carries Two (2) marks. Attempt All questions.

- 1. Which of the following courts is an appellate court ?
 - (A) Court of 1st Class Magistrate
 - (B) Court of 2nd Class Magistrate
 - (C) District and Session Courts
 - (D) High Court
- 2. Pioneer of Science of ForensicToxicology was :
 - (A) Mathieu Joseph Orfila
 - (B) Mathieu Henry Orfila
 - (C) James Marsh
 - (D) Mathieu Marsh

- 3. The pioneer of Science of Forensic Ballistics was:
 - (A) Henry Perkins Goddard
 - (B) Calvin Hooker Goddard
 - (C) Edmond Locard
 - (D) Miachel Thomas
- 4. Causing disappearance of evidence by a Forensic Scientist is punishable under:
 - (A) Sec.-201, IPC
 - (B) Sec.-302, IPC
 - (C) Sec.-253, IPC
 - (D) Sec.-274, IPC

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5.	Evidence that can be traced to a	7.	Which of the following has highest
	common source with an extremely		wavelength ?
	high degree of probability is said to		(A) Microwave rays
	possess:		
	(A) Class characteristics		(B) X-rays
	(B) Individual characteristics		(C) Gamma rays
	(b) marvidual characteristics		(D) Radio waves
	(C) Common characteristics		
	(D) Evidential characteristics	8.	In GC-MS, a process in which an
6.	Universal detector used in HPLC		inert gas is bubbled through the
	is:		water is known as:
	(A) UV		(A) Eluting
	(B) ED		(B) Mixing
	(C) Fluorescence		(C) Purjing
	(D) MS		(D) Tranning

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9.	Process of converting analyte into	11.	Differential extraction is most
	free atoms is known as:		suitable for the extraction of DNA
			from:
	(A) Derivatization		(A) Mixed samples
	(B) Atomization		(B) Blood
	(C) Sputtering		(C) Urine
	(D) Alkylation		(D) Milk
10.	Forensic NAA unit is situated	12.	Which of the following performs
	at:		better for testing an aged blood
	(A) BARC, Trombay		stain ?
			(A) Kastle Crust assay
	(B) TIFR, Mumbai		(B) Absorption elution assay
	(C) PRL, Ahmedabad		(C) Absorption inhibition assay
	(D) RRL, Jammu		(D) Mixed agglutination

15. The persons with AB blood groups 13. After removal of which of the have in their plasma: following, the clear fluid portion of (A) Anti-A the plasma is called serum? (B) Anti-B (A) Fibrinogen (C) Both Anti-A and Anti-B (D) Neither Anti-A nor Anti-B (B) Gamma-globulin Octane number signifies: (C) Agglutinins (A) Performance of fuel (D) Agglutinogens (B) Composition of fuel 14. Antigens of blood group substances (C) Strength of fuel of human blood are: (D) Ignition temperature of fuel Range of alcohol in wine is: (A) Mucopolysaccharides (A) 3 to 10% (B) Gamma-globulins (B) 15 to 20% (C) Albumin (C) 10 to 14%

(D) 40 to 50%

(D) Monosaccharides

18.	Harry, Horse, Smack and Junk are	20.	Stass-Otto method is used for the
	the common street names for :		extraction of:
	(A) Diazepam		(A) Alkaloids
	(B) Charas		(B) Pesticides
	(C) Heroine		(C) Metallic poisons
	(D) Cocaine		(D) Benzo dizipines
19.	A substance that reduces pain and	21.	Which of the following is a class
	has no psycho-active property is		characteristic of a fired bullet or a
	known as:		cartridge case ?
	(A) Hypnotic		(A) Number of lands and grooves
	(B) Anti-depressant		(B) Ejector markings
	(C) Analgesic		(C) Breach block markings
	(D) Narcotic		(D) Both (B) and (C)

22.	Who invented dynamite?	25.	Direction of fire in case of arson can
	(A) Newton		be ascertained from all of the
	(B) Alfred Noble		following, except:
	(C) Habber		
	(D) Einstein		(A) Fire patterns
23.	The initiation action in the		(B) Broken window glasses
	detonation of HE-36 grenade is :		(C) Smoke and soot pattern
	(A) Pull		
	(B) Pressure		(D) Accelerant container
	(C) Pressure release	26.	Eumelanin gives which colour to
	(D) Tension release		the hair ?
24.	Richochet of bullet means:		(A) Red
	(A) Tampered bullet		(B) White
	(B) Unfired bullet		
	(C) Deflection of bullet		(C) Grey
	(D) Blunting of bullet		(D) Black

27.	Normally fibers possess:	29. Mulberry silk is produced by:
	(A) Class characteristics	(A) Bombyx mori
	(B) Individual characteristics	(B) Anther pernyi
	(C) Class and individual	(C) Antheraea proyeli J.
	characteristics	
		(D) Antheraea assamensis
	(D) Specific characteristics	
28.	Bilirubin in fecal stains can be	30. Club formation takes place during
	detected using:	which growth phase of hair?
	(A) Edelmann's test	(A) Anagen
	(B) Starch iodide test	(B) Catagen
	(C) Kastle-Meyer test	(C) Telogen
	(D) Takayama's test	(D) Pre-anagen

31.	The speed and size of a vehicle can	33.	Which of the following techniques
	be determined by:		may be used to characterize binder
	(A) Skid marks		type in automotive paints ?
	(A) DRIU IIIAI KS		(A) Pyrolysis gas chromatography
	(B) Vehicular soil		(B) Atomic absorption spectrometry
	(C) Splashing of blood		(C) Atomic emission spectrometry
	(D) Tyre marks		(D) X-ray fluorescence spectrometry
32.	Dried paint <i>cannot</i> be tested for the	34.	Out of the following bones, which will
	presence of :		provide a more accurate estimation
	(A) Binder		of stature ?
			(A) Clevicle
	(B) Solvent	(B) Radius	
	(C) Pigment		(C) Metacarpals
	(D) Additive		(D) Femur

35.	Dentine is:	37.	Patella belongs to the category of:
	(A) Harder than enamel		
	(B) Softer than enamel		(A) Irregular bones
	(C) Neither hard nor soft than		(B) Pneumatic bones
	enamel		
	(D) Softer than ligament		(C) Sesamoid bones
36.	Which of the following is one of		(D) Short bones
	the key element of Forensic	20	Chall what amonimum sition was
	Anthropology ?	38.	Skull photo superimposition was
	(A) Examining animal bones		first applied by:
	(B) Diagnosing bone disease in		(A) Glaister and Brash
	living humans		
	(C) Examining bones for the legal		(B) Henry Lee
	purposes		(C) Kenton J. Moody
	(D) Performing autopsis on soft		

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(D) Suzaane Bell

- 39. Disguise is:
 - (A) Duplicate another's writing
 - (B) Deliberate effort to alter the discriminating elements of ones own writing
 - (C) Simulation of another's writing
 - (D) Copying of another's writing
- 40. Two inks having similar shades in visible light may be differentiated by using:
 - (A) VSC
 - (B) Comparison microscope
 - (C) Stereozoom microscope
 - (D) Scanning electron microscope

- 41. The security thread in a genuine currency note is:
 - (A) Line made by printing
 - (B) Aluminium foil inserted in a paper
 - (C) Impressed by a roller in a pulpy state
 - (D) Silver foil inserted in a paper
- 42. Fragile documents can be preserved in:
 - (A) Citric acid
 - (B) Formalin
 - (C) Polypropyline
 - (D) Polyvinyl acetate

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43.	Which one is <i>not</i> a sizing agent	45.	Нус	drochloric	acid is best s	uited as
	for paper ?		a so	olvent tes	st for which fi	ber ?
			(A)	Nylon		
	(A) Starch		(B)	Wool		
	(B) Gum arabic		(C)	Silk		
	(C) Animal gelatin		(D)	Cotton		
	(D) Aluminium hydroxide	46.	GR	IM stand	s for :	
44.	Deliberate killing of a child within		(A)	Glass	Refractive	Index
11.	Denocrate kinning of a clinic within			Manager	ment	
	four weeks of its birth is called:		(B)	Glass	Ratio In	tensity
	(A) Foeticide			Measure	ement	
	(B) Filicide		(C)	Glass	Refractive	Index
				Measure	ement	
	(C) Neonaticide		(D)	Glass	Refractive	Index
	(D) Abortion			Matchin	g	

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47.	While conducting Luminol test,	49.	The Phadebas test is utilized to
	luminol reacts with hydrogen salt		detect:
	and forms:		(A) Semen stains
	(A) Di-anion		(B) Blood stains
	(B) Cation		(C) Urine stains
	(C) Anion		(C) Orme stams
	(D) All of the above	50.	(D) Saliva stains
48.	Which of the following types of		Blood group specific substances
	biological evidence contains		(antigens) are present on which of
	haploid cells ?		the following ?
	(A) Hair		(A) Erythrocytes
	(B) Blood		(B) Thrombocytes
	(C) Sperm		(C) Leucocytes
	(D) Saliva		(D) Plasma

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