(U			al No. of printed pages : 10
	O NOT OPEN THIS QUESTION BOO	, 2025 (Forensic	
	PG-LL-Vuly	, 2023 (1 01011310 )	Science
			Sr. No. 1002
C	ode A	. 1	
Ti	me : 1¼ Hours To	tal Questions : 100	Max. Marks : 10
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Fa	ther's Name :	Mother's	Name:
Da	te of Examination :		
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2.	answer-sheet to the Invigila failing which a case of use against him / her, in addition answer-sheet of such a cand	of unfair-means / mis- of unfair-means / mis- on to lodging of an FIR lidate will not be evalua	aving the Examination Hal behaviour will be registered with the police. Further the ited.
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3. 4. 5.	answer-sheet to the Invigila failing which a case of use against him / her, in additional answer-sheet of such a candon Keeping in view the transpo- Sheet is provided to the can the candidate. Question Booklet along-with uploaded on the University Examination. Candidates m to discrepancy in the question the same on the University the Controller of Examinal complaint in any case will b The candidate MUST NOT Sheet. Rough work, if any, n MUST NOT be ticked in the There will be no negative one full mark. Cutting, en in OMR Answer-Sheet with	tor concerned before lead of unfair-means / mis-lead of unfair-means / mis-lead lidate will not be evalued arency of the examination and the evaluation of the examination didate so that a copy of h answer key of all the A Website immediately a ay raise valid objection/of on booklet/answer key of website. The complain ations by hand or three e considered. do any rough work or we may be done in the quest the Question book-let. marking. Each correct rasing, overwriting at ill be treated as incor	behaviour will be registered with the police. Further the ited. OMR Sheet may be kept be A,B,C and D code shall be go fter the conduct of Entrance complaint if any, with regars within 24 hours of uploading to be sent by the students to bugh email. Thereafter, no writing in the OMR Answer tion book-let itself. Answer to book set that one answer crect answer.

SET-X

Code-A

estion No.		Question	ns	
1.	What comes n	ext in the series ? 3, 6	6, 12, 24, ?	an a
	(1) 36	(2)	48	સ્પ છે.
	(3) 60	(4)	40	(a) 40 <sup>-2</sup>
2.	If $3x + 5 = 20$ ,	what is the value of a	k?	Sederata 1 W/L 8
	(1) 3	(2)	5	
•	(3) 15	(4)	10	. 10
3.	A train 120 me in 10 seconds	eters long passes a mar . The speed of the tra	n walking at 6 km/ in is :	h in the same direction
	(1) 54 km/h	(2)	60 km/h	design (D.)
	(3) 66 km/h	(4)	72 km/h	(1) Handle
4.	Which word i	s different from the c	others ?	Riolainort 1
	(1) Square	(2)	Triangle	network (1)
	(3) Circle	(4)	Rectangle	(d) Proce
5.	Find the odd	one out : 2, 3, 5, 7, 11	., 13, 17, 18	ava chi si
	(1) 7	(2)	11	
	(3) 18	df <b>(4)</b>	17	
6.	If the code fo	r "DOCTOR" is "FQE	EVQT", what is th	ne code for "NURSE"
	(1) PWTUG	+ (2)	PWTSE	
	(3) MWTU(	7 (4)	PWSUG	

#### Code-A Question Questions No. If a box contains 8 red, 6 blue, and 4 green balls, the probability of picking 7. a red ball is : (1) 1/3(2) 2/5 (3) 4/9 (4) 2/3 Which is the correct mirror image of the letter "F"? 8. (1) (2) f(3) (4) None 9. Ramesh is taller than Suresh, Suresh is taller than Mahesh. Who is the tallest? (1) Mahesh (2) Suresh (3)Ramesh (4) Cannot say Which is not a unit of measurement? 10. (1) Newton (2) Joule (3)Pascal (4) Voltmeter What is the average of 12, 15, 18, 21? 11. (1) 16.5 (2) 17 (3) 18 (4) 15 If 8 pens cost ₹ 40, what is the cost of 15 pens? 12. (1) ₹75 (2) ₹60 (3) ₹80 (4) ₹90 PG-EE-July, 2025 (Forensic Science) Code-A

SET-X

(2)

estion No.	. (	Question	1 <b>S</b> U()
13.	If a man walks at 5 km/h, l early by 4 min. Find the dis	he is late stance.	by 6 min; if he walks at 6 km/h, he is
	(1) 5 km	· (2)	6 km
	(3) 4 km	(4)	2 km
14.	Time and work : A can do a can finish it in :	i job in 10	) days, B in 15. Working together, they
	(1) 6 days	(2)	5 days
	(3) 8 days	(4)	9 days
15.	Which number is a perfect	t square	?
	(1) 20	(2)	49
	(3) 45	(4)	81 vine bookieren
16.	The study of fingerprints	is known	as:
	(1) Odontology	(2)	Serology
	(3) Dactyloscopy	(4)	Ballistics
17.	The chemical used to dete	ect blood	stains is :
	(1) Benzidine	(2)	
	(3) Phenolphthalein	(4)	) Sulfuric acid
18.	Narcoanalysis is used to	•	Ten on batent et at histo inde
	(1) Cure insomnia	(2)	) Enhance DNA
	(3) Extract truth	(4	

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iestion No.	Questio	ns
19.	The most reliable method for ident	ification is :
	(1) Dental records (2)	Fingerprints
	(3) Blood group (4)	Footprints
20.	Locard's principle refers to :	
	(1) Chemical evidence handling	(2) Transfer of evidence
	(3) Crime reconstruction	(4) Time of death estimation
21.	The first country to use forensic so	ience was :
	(1) USA (2)	India
	(3) China (4)	France
22.	DNA is extracted from :	
	(1) Blood only (2)	Hair only
	(3) All nucleated cells (4)	Skin only
23.	What is the full form of FSL ?	an at the fit
	(1) Forensic Security Lab (2)	Forensic Science Lab
	(3) Field Service Lab (4)	None
24.	Which body fluid is used in semen	detection ?
	(1) Urea (2)	Prostate fluid
a an an an Angala an	(3) Amylase (4)	Serum
25.	Gunshot residue is tested using :	in our booking to here which have a set of the
	(1) Luminol .(2)	Concernent and the second s
	(3) Griess test (4)	Kastle-Meyer test

	beQ		SET-2 Code-/
uestion No.	Qu	estic	ons
26.	Tool mark analysis is part of	: 2	and a little of heading the
	(1) Chemistry	(2)	Physics
	(3) Forensic ballistics	(4)	Forensic mechanics
27.	The term "Thanatology" refe	rs to :	a to the product and the product
	(1) Study of death	(2)	Study of wounds
	(3) Study of toxins	(4)	Study of handwriting
28.	Ridge characteristics in finge	rprin	ts are called :
	(1) Points	(2)	Minutiae
	(3) Nodes	(4)	Spirals
29.	Arson is the forensic study of	:	annual of a sheep of the doubt the
	(1) Guns	(2)	Fire of the Botton of the
	(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 :		seatai an archaithe an 177 - 2
	(1) 4	(2)	
	(3) 12	(4)	14
32.	The most electronegative eler	nent	is :
	(1) Oxygen	(2)	Nitrogen
	(3) Fluorine	(4)	Chlorine

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uestion No.		Questio	ns
33.	The bond in NaCl is :		the the data data been to 1 138
••••	(1) Covalent	(2)	Metallic
	(3) Ionic	(4)	Hydrogen
34.	Which gas is used in the pr	eparatio	on of ammonia by Haber's process ?
	(1) Oxygen	(2)	Nitrogen
	(3) Methane	(4)	Carbon dioxide
35.	Which of the following is a	strong a	cid? I ni source oraștin cabil
	(1) HCl 08	(2)	CH <sub>3</sub> COOH
	(3) NaOH	(4)	NH4OH
36.	Which of these is an exothe	ermic re	action?
	(1) Photosynthesis	(2)	Evaporation
***	(3) Combustion	(4)	Melting
37.	A compound that turns red	litmus	blue is :
	(1) Acid	(2)	Base AZO soluble (D)
	(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 magn	lesium ion (Mg <sup>2+</sup> ) is :
¢.	(1) 10	(2)	12
0.	(3) 14	(4)	8

(6)

uestion No.	Questions
40.	The IUPAC name of CH <sub>4</sub> is :
	(1) Ethane (2) Methane
	(3) Butane (4) Propane
41.	The metal stored in kerosene is :
	(1) Copper events (2) Iron
	(3) Sodium (4) Zinc (8)
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 ?
2 · · · · ·	(1) Filtration (2) Sublimation
	(3) Crystallization (4) Distillation
46.	Greenhouse gas among the following is :
	(1) $N_2$ (2) $CH_4$ (2) $CH_4$
ŀ	(3) Ar (4) O <sub>2</sub> (2)

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PRIS -- NEVER

uestion No.	Questions	
47.	The molar mass of H <sub>2</sub> O is :       (2) 16 g/mol         (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 ?       (2) CO2         (1) O2       (2) CO2         (3) NH3       (4) H2	
53	<ul> <li>Which of these is a biodegradable polymer ?</li> <li>(1) Polythene</li> <li>(2) Nylon</li> <li>(3) PHB</li> <li>(4) PVC</li> </ul>	

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iestion No.	Questions	
54.	The periodic table is arranged in order of :         (1) Mass number       (2) Atomic number         (3) Density       (4) Size	
55.	An alloy of copper and zinc is :(1) Bronze(2) Brass(3) Steel(4) Duralumin	ji k
56.	Photosynthesis occurs in :(1) Roots(2) Stem(3) Leaves(4) Flower	
57.	The green pigment in plants is :(1) Chlorophyll(2) Hemoglobin(3) Xanthophyll(4) Anthocyanin	
58.	Which plant part absorbs water ?(1) Flower(2) Stem(3) Leaf(4) Root	
59.	Bryophytes are also called : (1) Seed plants (2) Amphibians of plant kingdom (3) Vascular plants (4) Algae	65.
60.	Gymnosperms differ from angiosperms in having :(1) Enclosed seeds(2) No seeds(3) Naked seeds(4) Fruits	

uestion 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	1
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 : 100 sol of a second month of the	
Ę.	(1) Two cotyledons (2) Net-veined leaves	
1.1	(3) Parallel venation (4) Tap root	

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estion 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	Pages 2

nestion No.	Questions
75.	The enzyme present in saliva is :         (1) Pepsin       (2) Trypsin         (3) Amylase       (4) Lipase
76.	RBCs are red due to :(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.	<ul> <li>(1) Blood</li> <li>(2) Bone</li> <li>(3) Cartilage</li> <li>(4) Muscle</li> </ul>
80.	The disease caused by deficiency of Vitamin D is :         (1) Scurvy       (2) Rickets         (3) Beriberi       (4) Night blindness
81	<ul> <li>The respiratory pigment in humans is:</li> <li>(1) Hemoglobin</li> <li>(2) Chlorophyll</li> <li>(3) Albumin</li> <li>(4) Globulin</li> <li>(5) EE-July, 2025 (Forensic Science) Code-A</li> </ul>

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	2 bo9	SET-X Code-A
estion	Questions	iestin. Ne
No. 82.	Excretion in humans is periodicity         (1) Lungs         (2) Kidneys         (3) Liver         (4) Stomach	AS Speed = dis (1) Thus (2) Area
83.	Which part of the brain controls balance ?(1) Cerebrum(2) Cerebellum(3) Medulla(4) Hypothalamus	Newdo 1.
84.	The organism that carries malaria is :(1) Culex mosquito(2) Aedes mosquito(3) Anopheles mosquito(4) Housefly	
85.	(1) A (2) B	earainfil ()
86	<ul> <li>(1) Joule</li> <li>(2) Newton</li> <li>(3) Pascal</li> <li>(4) Watt</li> </ul>	(1) 7967 [or (3) 8797 dot
87	<ul> <li>(1) Voltmeter</li> <li>(2) Ammeter</li> <li>(3) Barometer</li> <li>(4) Thermometer</li> </ul>	01901 (07)
•	<ul> <li>8. Which of the following is a scalar quantity?</li> <li>(1) Velocity (2) Force</li> <li>(3) Acceleration (4) Temperature</li> <li>-EE-July, 2025 (Forensic Science) Code-A (13)</li> </ul>	seal () Avacaj ()

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Juestion No.	Ques	stio	ns	6.26 1-61 2
89.	Speed = distance $\div$ ?		and the substitut of notional .	
	(1) Time	(2)	Force	
	(3) Area	(4)	Pressure	
90.	Light travels fastest in :	នាញ់ ត	Management of the brain was of	
	(1) Air	(2)	Water	
	(3) Glass	(4)	Vacuum	
91.	Which of these is not a source of	of re	newable energy ?	
	(1) Wind	(2)	Solar	
	(3) Coal	(4)	Biomass	
92.	A fuse is used to :	i his		
	(1) Increase voltage	(2)	Protect circuit	
	(3) Store current	(4)	Break wires	
93.	The force that opposes motion is	s:	S. unit of fores 16.	
	(1) Tension	(2)	Thrust	
	(3) Friction	(4)	Pressure	
94.	The boiling point of water in Cel	lsiu	sis: bears meaningers don'?	
	(1) 0°C	(2)	50°C	
	(3) 100°C	(4)	212°C	
95.	Which mirror is used in car-side	e-vie	ew mirrors ?	.14
	(1) Plane . (	(2)	Convex	
	(3) Concave	(4)	Cylindrical	

X-112

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(14)

				Code-A
tion	Qu	estion	5	
o. )6.	<ul> <li>What is the value of √144?</li> <li>(1) 10</li> <li>(3) 12</li> </ul>	(2) (4)	13.	
97.	What is the next prime num (1) 9 (3) 11	(2) (4)	10 13	
98.	If the area of a square is 81 (1) 8 cm (3) 10 cm	(2)	9 cm 11 cm	
99.	A triangle has angles of 50° (1) 60° (3) 80°	(2)	•. What is the 70° 90°	third angle :
100	. If 3x = 12, then x = ? (1) 2 (3) 4		) 3 ) 5	
		•		
PG-	EE-July, 2025 (Forensic	Scien	ce) Code-A	

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		PG-E	E-July, 2025 (For	ensic Scier	nce)
	Co	de <b>B</b>			Sr. No. 10010
				1	35 35 1 100
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:	Nar	ne :		Date of Birth :	
	Fatl	her's Name :		Mother's Name	
	Dat	e of Examination :		/	
	(Sig	mature of the candi	date)	(Signat	cure of the Invigilator)
	2. 3. 4.	answer-sheet to th failing which a cas against him / her, answer-sheet of su Keeping in view th Sheet is provided to the candidate. Question Booklet a uploaded on the U Examination. Can	e Invigilator concerned se of use of unfair-mea in addition to lodging of ch a candidate will not the transparency of the co the candidate so that along-with answer key of niversity Website imm didates may raise valid	before leaving ins / mis-behav of an FIR with be evaluated. examination sy t a copy of OMR of all the A,B,C ediately after the objection/compl	let as well as OMR the Examination Hall, iour will be registered the police. Further the stem, carbonless OMR Sheet may be kept by and D code shall be got the conduct of Entrance aint if any, with regard
	5.	the same on the U the Controller of complaint in any c The candidate MU Sheet. Rough work <b>MUST NOT</b> be to <b>There will be no</b>	Iniversity website. The Examinations by har ase will be considered. UST NOT do any rough c, if any, may be done in cked in the Question bo negative marking. Ea	complaint be s nd or through work or writin n the question b ook-let. ch correct ans	24 hours of uploading eent by the students to email. Thereafter, no g in the OMR Answer- book-let itself. Answers swer will be awarded
	7.	in OMR Answer- Use only Black or I	Sheet will be treated Blue <u>BALL POINT PE</u>	l as incorrect	<b>ore than one answer</b> <b>answer.</b> ty in the OMR Answer-
	8.	ENSURE THAT T BOOK-LET, COM	ERING THE QUESTIC HEY HAVE BEEN SUI PLAINTS, IF ANY, REC RTAINED 30 MINU'	PPLIED CORRJ GARDING MIS	ECT AND COMPLETE PRINTING ETC. WILL

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Question No.			Questi	ons	۰.	
1.	Wh	at is the average of	of 12, 15, 18,	21 ?	Texasiento vell	
	(1)	16.5	(2	) 17	dhi niti (i	
	(3)	18	(4)	15	kiloned (i.	
2.	If 8	pens cost₹40, wl	hat is the cos	t of 15 pens ?	levi sationali	
	(1)	₹75	(2)	₹60		
	(3)	₹80 ·	(4)	₹90		
3.	If a early	man walks at 5 k y by 4 min. Find t	m/h, he is la he distance.	te by 6 min; if h	e walks at 6 k	m/h, he
	(1)	5 km	(2)	6 km		
	(3)	4 km	(4)	2 km	n bola (S.	
4.	Time can f	e and work : A can inish it in :	n do a job in 1	0 days, B in 15.	Working toge	ther, the
	(1)	6 days	(2)	5 days	·•• · · · · · · · · · · · · · · · · · ·	
1	(3)	8 days	(4)	9 days	Which of the	lite
5.	Whic	h number is a per	a the second	and the second second second	- tail7_ (f)	
	(1)	20	(2)	49	(3) - Coal	
	(3)	45	(4)	<b>81</b>	add at said E	.81
	The	tudy of fingerprin	nts is known	as: ensite	elevel (1	
6.	I ne s					
		Odontology	(2)	Serology	ा लाख (त)	

(1)

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

(2)

.

Question No.		Questio	ns	
13.	The force that opposes	s motion is :	24. [ 1/3+ - 12 [ben x - ? ] ]	
	(1) Tension	(2)	Thrust	
	(3) Friction	(4)	Pressure	
14.	The boiling point of wa	ater in Celsiu	sis:	
	(1) 0°C	(2)	50°C	
	(3) 100°C	(4)	212°C	
15.	Which mirror is used i	n car-side-vie	ew mirrors ?	
	(1) Plane	(2)	Convex	
	(3) Concave	(4)	Cylindrical	
16.	What is the value of $$	144 ?	2.1. Which physical mainteners	
	(1) 10	(2)	11	
, Î	(3) 12	(4)	13 Martin Ashder 13 (D)	
17.	What is the next prime	number afte	er 7?	
	(1) 9	. (2)	10	
	(3) 11	(4)	13	
18.	If the area of a square i	is 81 cm², wh	at is its side ?	
	(1) 8 cm	(2)	9 cm	
	(3) 10 cm	• (4)	11 cm	
19.	A triangle has angles of	f 50° and 60°.	What is the third angle ?	
	(1) 60°	(2)	70°	
	(3) 80°	(4) §	ooo	1

(3)

Question No.		Questions
20.	If 3x = 12, then x = ?	
	(1) 2	(2) 3
	(3) 4	(4) 5
21.	The basic unit of life is :	and the second
n and an and an an	(1) Atom	(2) Cell
	(3) Organ	(4) Tissue
22.	Mitochondria is known as	
	(1) Control center	(2) Protein factory
	(3) Powerhouse	(4) Skeleton
23.	Which phylum includes ear	thworms?
	(1) Arthropoda	(2) Mollusca
	(3) Annelida	(4) Echinodermata
24.	The vertebral column is fou	ind in :
(	(1) Insects	(2) Snakes
(	3) Amoeba	(4) Sponges
25. ]	The enzyme present in saliv	a is : 16 el sinupe a to sera od T 21
(	1) Pepsin	(2) Trypsin
(	3) Amylase	(4) Lipase
<b>26.</b> R	BCs are red due to :	Alta of Resigns and the other set
(1	l) Myoglobin	(2) Hemoglobin
(3		(4) Albumin ience) Code-B

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(4)

uestion No.		Questions
27.	The largest gland in the h	numan body is :
	(1) Pancreas	(2) Liver
	(3) Thyroid	(4) Salivary gland
28.	Human heart has how ma	any chambers ?
	(1) 2	(2) 3
	(3) 4	(4) 5
29.	Which of these is not a co	nnective tissue ?
	(1) Blood	(2) Bone
	(3) Cartilage	(4) Muscle
30.	The disease caused by def	ficiency of Vitamin D is :
	(1) Scurvy	(2) Rickets
	(3) Beriberi	(4) Night blindness
31.	Electrolysis of water gives	s: Spectra of made rise and 1 of hirs. 35
(and	(1) H <sub>2</sub> only	(2) O <sub>2</sub> only
	(3) $H_2$ and $O_2$	(4) CO <sub>2</sub>
32.	Which gas turns lime wate	er milky?
	(1) O <sub>2</sub> is the open of the light	(2) CO <sub>2</sub>
	(3) NH <sub>3</sub>	•• (4) H <sub>2</sub>
33.	Which of these is a biodeg	radable polymer ?
	(1) Polythene	(2) Nylon
	(3) PHB	- (4) PVC

(5)

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
ante ante ante a	(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
	Which plant part absorbs water ?
(	1) Flower (2) Stem
(;	3) Leaf (4) Root
39. B	ryophytes are also called : the second
(1	) Seed plants (2) Amphibians of plant kingdom
(3	
<b>0.</b> G	ymnosperms differ from angiosperms in having :
(1	
(3)	

(6)

Question No.	Questions	0-98•, 9
41.	Atomic number of carbon is :	-03 -01
	(1) 4 (2) 6	
	(3) 12 (4) 14	
42.	The most electronegative element is :	de la composition de la compos
	(1) Oxygen (2) Nitrogen	
	(3) Fluorine (4) Chlorine	
43.	The bond in NaCl is :	60
	(1) Covalent (2) Metallic	
	(3) Ionic (4) Hydrogen	
1.	Which gas is used in the preparation of ammonia by Haber's proce	200 2
	(1) Oxygen (2) Nitrogen	- 663
	(8) Methane (4) Carbon dioxide	
45.	Which of the following is a strong acid ?	GA.
(	1) HCl (2) CH <sub>3</sub> COOH discould (1)	
(	3) NaOH (4) NH <sub>4</sub> OH betrebuter (8)	
<b>46.</b> V	Vhich of these is an exothermic reaction ?	e 3
(	1) Photosynthesis (2) Evaporation	
(3	3) Combustion (4) Melting	
17. A	compound that turns red litmus blue is :	
	) Acid for a state (2) Base	
(3	) Salt (4) Neutral	

Question No.	Questions
48.	Which of the following has a pH of 7?
	(1) Lemon juice (2) Vinegar
	(3) Water (4) Soap solution
49.	The number of electrons in a magnesium ion (Mg <sup>2+</sup> ) is :
	(1) 10 (2) 12
	(3) 14 (4) 8
50.	The IUPAC name of CH <sub>4</sub> is :
	(1) Ethane (2) Methane
	(3) Butane (4) Propane
51.	The first country to use forensic science was :
1	(1) USA (2) India
	(3) China (4) France
52.	DNA is extracted from :
and the second	1) Blood only 1000, IC (2) Hair only
	3) All nucleated cells (4) Skin only
53. V	Vhat is the full form of FSL ?
	1) Forensic Security Lab (2) Forensic Science Lab
(5	3) Field Service Lab (4) None noise and (2)
54. W	Thich body fluid is used in semen detection ?
(1	그는 것 같은 것 같은 것 같아요. 그 것 같아요. 그는 것 같아요. 이야지 않아요. 정말 것 같아요. 그는 것 그는 것 같아요. 그는 그는 것 같아요. 그는 그 그 그는 요. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
(3	

(8)

Question No.	Questions	1000 en
55.	Gunshot residue is tested using :	EN SO
	(1) Luminol (2) Ninhydrin	(4) ÷
	(3) Griess test (4) Kastle-Meyer test	
56.	Tool mark analysis is part of :	W
	(1) Chemistry (2) Physics	
	(3) Forensic ballistics (4) Forensic mechanics	
57.	The term "Thanatology" refers to :	11 13
	(1) Study of death (2) Study of wounds	
	(3) Study of toxins (4) Study of handwriting	
58.	Ridge characteristics in fingerprints are called :	17   .30.
and the second	(1) Points (2) Minutiae	n
1	(3) Nodes (4) Spirals	
59.	Arson is the forensic study of :	62 38
	(1) Guns (2) Fire	12.
	(3) Explosives (4) Blood	
60.	Superimposition technique is used in :	T 1 78
. (	1) Matching DNA (2) Skull-face identification	
(	3) Document analysis (4) Injury Correlation	
61. 7	he metal stored in kerosene is :	
(	l) Copper (2) Iron	68,
(:	3) Sodium (4) Zinc	1

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Tenend

(9)

Question No.	Q	uestio	ns	
62.	Which of the following is a noble gas ?			
	(1) Nitrogen	(2)	Oxygen	
	(3) Argon	(4)	Hydrogen	
63.	Which compound is used in d	dry clea	aning?	
	(1) Toluene	(2)	Benzene	
	(3) Carbon tetrachloride	(4)	Acetone	
64.	Which vitamin contains coba	lt?	Ber Santasen String Land	
	(1) Vitamin-C	(2)	Vitamin-B <sub>1</sub>	
	(3) Vitamin-B <sub>12</sub>	(4)	Vitamin-D	
65.	Which method is used to sep	arate	salt from sea water ?	
	(1) Filtration	(2)	Sublimation	
	(3) Crystallization	(4)	Distillation	
66.	Greenhouse gas among the fo	ollowir	ng is:	
1	(1) N <sub>2</sub>	(2)	CH4	
	(3) Ar	(4)	0 <sub>2</sub> envisoiant (6)	
67.	The molar mass of $H_2O$ is :	(konse	el constant as an article ord 1.084.	
	(1) 10 g/mol	(2)	16 g/mol	
	(3) 18 g/mol	(4)	20 g/mol	
68.	An example of a polymer is :		enseened at barots forom add	
	(1) Glucose	(2)	Polyethylene	
	(3) Water	(4)	NaCl	

X-132....

(10)

Question No.		Questions		
69.	Which of these metals is	liquid at room temperature ?		
-	(1) Mercury	(2) Iron		
Colores .	(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 thr	ough: Attack of the new sector and end and a sector		
	(1) Xylem	(2) Phloem		
	(3) Stomata	(4) Root hairs		
72.	Which is not a plant horn	none?		
	(1) Auxin	(2) Gibberellin		
	(3) Estrogen	(4) Cytokinin		
73.	A plant that completes its	s cycle in one season is :		
States and and	(1) Annual	(2) Biennial		
	(3) Perennial	(4) Succulent		
74.	The edible part of carrot i	s: : : : : : : : : : : : : : : : : : :		
(	(1) Root	(2) Stem		
(	3) Leaf	(4) Flower		
75. V	Which of the following is a xerophyte ?			
	1) Mango	(2) Cactus		
(	3) Rice	(4) Lotus		

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Question No.	Q	uestions	le active
76.	Leaf base, petiole and lamin		The second s
	(1) Stem	(2) Leaf	M. Chi
anti-	(3) Root	(4) Flower	
77.	Monocots have :	in tool of the state of the state of the	a dest fil i di
		(2) Net-veined leaves	
	(3) Parallel venation	(4) Tap root	A STARLEY AND A ST
78.	The binomial name of wheat	is:	
	(1) Zea mays	(2) Oryza sativa	
-	(3) Triticum aestivum	(4) Pisum sativum	
79.	Plants breathe through :		
	(1) Leaves only	(2) Flowers	
	(3) Stomata	(4) Lenticels	
80.	Plant cells differ from animal	cells in having :	
	(1) Cell membrane	(2) Cell wall	(i) preside
	(3) Cytoplasm	(4)	et (6.
81.	What comes next in the serie	s ? 3, 6, 12, 24, ?	in sai (sfr
	(1) 36	(2) 48	
	(3) 60	(4) 40	
82.	If $3x + 5 = 20$ , what is the value	ae of x ?	A Contraction
-	(1) 3 (2) 5	(3) 15 (4) 10	11 . K. C. K.

Question No.			Questio	ons	patento
83.	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) 5	64 km/h	(2)	60 km/h	
	(3) 6	66 km/h	(4)	72 km/h	
84.	Which	n word is differ	cent from the o	thers ?	
	(1) S	Square	(2)	Triangle	ne mile :
	(3) (	Circle	(4)	Rectangle	n a 45) <sup>[0</sup> - 11
85.	Find t	the odd one out	t : 2, 3, 5, 7, 11,	13, 17, 18	96. W 1.09
	(1) 7		(2)	11	
	(3) 1	8	(4)		
86.	If the code for "DOCTOR" is "FQEVQT", what is the code for "NURSE"?				
	(1) P	WTUG	(2)	PWTSE	
	(3) M	IWTUG	(4)	PWSUG	- 1
87.		x contains 8 re pall is :		4 green balls, the pr	
	(1) 1/	<b>/3</b>	(2)	2/5	
	(3) 4/	/9	(4)	2/3	

(13)

Question No.		Questi	ons Collection	
88.	Which is the correct mirror image of the letter "F"?			
	(1)	(2)		
	(3) ]	* (4)	None	
89.	Ramesh is ta tallest ?	uller than Suresh, Su	resh is taller than Mahesh. Who is the	
	(1) Mahesh	(2)	Suresh	
-	(3) Ramesh	(4)	Cannot say	
90.	Which is not	a unit of measuremer	nt ?	
	(1) Newton	(2)	Joule	
	(3) Pascal	(4)	Voltmeter	
91.	The respirato	ory pigment in human	s is :	
TRE	(1) Hemogla	bin (2)	Chlorophyll	
	(3) Albumin	(4)	Globulin	
92.	Excretion in ]	humans is performed	by:	
	(1) Lungs	(2)	있는 이번 동안을 해당한 것 같아요. 이는 것은 것은 것은 것은 것은 것은 것은 것은 것은 것을 가지 않는 것을 했다. 이는 것은 것은 것을 가지 않는 것은 것을 가지 않는 것을 가지 않는 것을 하는 것을 수 있다. 이는 것은 것을 가지 않는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것은 것은 것을 가지 않는 것을 수 있다. 가지 않는 것은 것을 가지 않는 것을 수 있다. 것은 것은 것을 하는 것은 것을 하는 것은 것을 하는 것을 수 있다. 것은 것은 것을 하는 것은 것을 하는 것은 것을 하는 것을 수 있다. 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것을 수 있다. 것은 것은 것은 것을 수 있다. 것은 것은 것을 수 있다. 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것을 수 있다. 것은 것은 것을 수 있다. 것은 것은 것은 것은 것은 것은 것은 것은 것을 수 있다. 것은	
	(3) Liver	(4)	Stomach	
93.	Which part of	the brain controls ba	lance?	
	(1) Cerebrui	n · (2)	Cerebellum	
	(3) Medulla	(4)	Hypothalamus	

PG-EE-July, 2025 (Forensic Science) Code-B (14)

Question No.		uestions	
94.	The organism that carries	nalaria is :	
		(2) Aedes mosquito	
	(3) Anopheles mosquito		
95.	Which blood group is unive	sal donor ?	
	(1) A	(2) B	
	(3) AB	(4) O	· · · · · · · · · · · · · · · · · · ·
96.	SI unit of force is :		
	(1) Joule	(2) Newton	
~	(3) Pascal	(4) Watt	
97.	Which instrument is used to	measure electric current ?	
	(1) Voltmeter	(2) Ammeter	
	(3) Barometer	(4) Thermometer	
98.	Which of the following is a so	alar quantity ?	
Control of	(1) Velocity	(2) Force	
	(3) Acceleration	(4) Temperature	
99.	Speed = distance ÷ ?		
(	1) Time	(2) Force	
(	3) Area	(4) Pressure	
100. I	ight travels fastest in :	•	
(	1) Air	(2) Water	
	B) Glass uly, 2025 (Forensic Scie	(4) Vacuum	1 4

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Father's Name :	Mo	other's Name :	-/	
Date of Examination :		- market inget	/	
(Signature of the candi	date)	(Signatu	re of the Invi	gilator)
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- Keeping in view the transparency of the examination system, carbonless OMR 3. Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
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- The candidate MUST NOT do any rough work or writing in the OMR Answer-5. Sheet. Rough work, if any, may be done in the question book-let itself. Answers MUST NOT be ticked in the Question book-let.
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Question No.		Questions
1.	The metal stored in	kerosene is : The standard the standard the
	(1) Copper	(2) Iron
		(4) Zinc
2.	Which of the followin	ng is a noble gas ?
	(1) Nitrogen	(2) Oxygen
		(4) Hydrogen
3.	Which compound is u	used in dry cleaning ?
	(1) Toluene	(2) Benzene
1. All	(3) Carbon tetrachle	oride (4) Acetone
4.	Which vitamin contai	ins cobalt ?
	(1) Vitamin-C	(2) Vitamin-B,
	(3) Vitamin-B <sub>12</sub>	(4) Vitamin-D
5.	Which method is used	d to separate salt from sea water ?
	(1) Filtration	(2) Sublimation
	(3) Crystallization	(4) Distillation
6.	Greenhouse gas amon	ig the following is :
	(1) N <sub>2</sub>	(2) CH <sub>4</sub>
	(3) Ar	(4) O <sub>2</sub>
7.	The molar mass of H <sub>2</sub>	O is: no satisfied of the second s
	(1) 10 g/mol .	(2) 16 g/mol
	(3) 18 g/mol	(4) 20 g/mol

SET-X

Questio No.	Questions	1
8.	An example of a polymer is :	
	(1) (1)	olyethylene
•	(3) Water (4) N	
9.	Which of these metals is liquid at room	n temperature ?
	(1) Mercury (2) Ir	
	(3) Aluminium (4) Zin	ac
10.	Which of the following is amphoteric?	
	(1) HCl (2) Na	OH
	(3) Al(OH) <sub>3</sub> (4) H <sub>2</sub>	SO4
11.	The first country to use forensic science	e was :
	(1) USA (2) Ind	
	(3) China (4) Fra	nce
12.	DNA is extracted from :	
	(1) Blood only (2) Hai	r only
daletter d	(3) All nucleated cells (4) Skin	a only
13.	What is the full form of FSL ?	
	(1) Forensic Security Lab (2) Fore	ensic Science Lab
	(3) Field Service Lab (4) Non	
4.	Which body fluid is used in semen detec	tion ?
	1) Urea (2) Pros	
	3) Amylase (4) Seru	m

uestion No.		Questions	Part
15.	Gunshot residue is tested using :		
	(1) Luminol	(2) Ninhydrin	
•	(3) Griess test	(4) Kastle-Meyer test	
16.	Tool mark analysis is part	of:*	
ath a	(1) Chemistry	(2) Physics	de la
		(4) Forensic mechanics	
17.	The term "Thanatology" re	efers to :	1
		(2) Study of wounds	
		(4) Study of handwriting	
18.	Ridge characteristics in fin	gerprints are called :	
	(1) Points	(2) Minutiae	
	(3) Nodes	(4) Spirals	
19.	Arson is the forensic study	of:	
	(1) Guns	(2) Fire	
	(3) Explosives	(4) Blood	
20.	Superimposition technique	is used in :	1.
	(1) Matching DNA	(2) Skull-face identification	
(	3) Document analysis	(4) Injury Correlation	
1. 1	What comes next in the serie	es ? 3, 6, 12, 24, ?	-
	1) 36	(2) 48	1
(	3) 60	(4) 40 ence) Code-C	
•

Question No.		Questions	te dene
22.	If $3x + 5 = 20$ , what	is the value of x ?	Special International Internat
	(1) 3	(2) 5	
	(3) 15	(4) 10	
23.	A train 120 meters lo in 10 seconds. The s	ng passes a man walking at 6 km/h peed of the train is :	in the same direct
	(1) 54 km/h	(2) 60 km/h	
	(3) 66 km/h	(4) 72 km/h	ne er l
24.	Which word is differe	ent from the others ?	
	(1) Square	(2) Triangle	
1.	(3) Circle	(4) Rectangle	with a state of the state of th
25.	Find the odd one out :	2, 3, 5, 7, 11, 13, 17, 18	
(	1) 7	(2) 11	
(	3) 18	(4) 17	
26. I	f the code for "DOCT(	OR" is "FQEVQT", what is the co	de for "NI IDST"?
A Late of the second second	l) PWTUG		
(2	) PWTSE	and the second	
(3	) MWTUG		Sand Y Carlos
(4	) PWSUG		

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Question No.		Questions	
27.	If a box contains 8 red a red ball is :	, 6 blue, and 4 green balls, the probabili	ty of pickin
	(1) 1/3	(2) 2/5	
	(3) 4/9	(4) 2/3	1.46
28.	Which is the correct m	irror image of the letter "F"?	
	(1)	(2) f	
	(3) ]	(4) None	
29.	Ramesh is taller than tallest ?	Suresh, Suresh is taller than Mahesh.	Who is the
	(1) Mahesh	(2) Suresh	
	(3) Ramesh	(4) Cannot say	
30.	Which is not a unit of m	leasurement?	
(	(1) Newton	(2) Joule	1.1.16
(	3) Pascal	(4) Voltmeter	
31. V	Which of these is not a s	source of renewable energy ?	
» (	1) Wind	(2) Solar	
(	3) Coal	(4) Biomass	
32. A	fuse is used to :		
(1	) Increase voltage	(2) Protect circuit	
(3	) Store current	(4) Break wires	

D-shel

(5)

Question No.		Questions	
<b>33.</b>	The force that oppose (1) Tension (3) Friction		
34.	The boiling point of wa	ater in Celsius is :	
	<ul> <li>(1) 0°C</li> <li>(3) 100°C</li> </ul>	(2) 50°C (4) 212°C	tructure process
35.	Which mirror is used i	n car-side-view mirrors ?	
erio and and a second	(1) Plane	(2) Convex	
4 6) - O.	(3) Concave	(4) Cylindrical	is all
	What is the value of √ (1) 10 (3) 12	(2) 11 (4) 13	
37.	What is the next prime	number after 7?	- 40 T 1- 94
(	1) 9	<ul><li>(2) 10</li><li>(4) 13</li></ul>	-7. (B)
38. I	f the area of a square is	s 81 cm², what is its side ?	
. (.	1) 8 cm 3) 10 cm	(2) 9 cm	
<b>39.</b> A	A triangle has angles of 50° and 60°. What is the third angle ?		de ?
(1			
(3	) -80°	(4) 90°	

(6)

Questio No.		· · · · · ·
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 :	11.1.1
1	(1) Annual (2) Biennial	
	(3) Perennial (4) Succulent	
44.	The edible part of carrot is :	
eleses.	(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	1 100

7)

Question No.	Questions	- Lana
47.	Monocots have :	
	(1) Two cotyledons (2) Net-veined leaves	
anterior e seree	(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 :	
and the star	1) Oxygen (2) Nitrogen	
(:	3) Fluorine (4) Chlorine	
53. T	he bond in NaCl is :	19
(1	) Covalent (2) Metallic	
(3		· ( , 5

(8)

Question No.	Que	stions
54.	Which gas is used in the prepa	ration of ammonia by Haber's process ?
	(1) Oxygen	(2) Nitrogen
	(3) Methane	(4) Carbon dioxide
55.	Which of the following is a strong	ng acid ?
	(1) HCl	
	(3) NaOH	(4) NH <sub>4</sub> OH
56.	Which of these is an exothermic	reaction ?
	(1) Photosynthesis	
	(3) Combustion	4) Melting
57.	A compound that turns red litm	ıs blue is :
	(1) Acid (	2) Base
	(3) Salt (4	4) Neutral
58.	Which of the following has a pH	of 7 ?
and the second	(1) Lemon juice (2	
. (	3) Water (4	) Soap solution
597	The number of electrons in a mag	mesium ion (Mg <sup>2+</sup> ) is :
	1). 10	) 12
(	3) 14 (4	8
<b>60.</b> T	The IUPAC name of $CH_4$ is :	
(1	l) Ethane (2)	Methane
(3	B) Butane (4) aly, 2025 (Forensic Science	Propane

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uestion No.	Questions
61.	The basic unit of life is :         (1) Atom       (2) Cell         (3) Organ       (4) Tissue
62.	Mitochondria is known as the :Other(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

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(10)

Question No.	Questions	Code
68.	Human heart has how many chambers ?	in the set
	(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	4(0):
70.	The disease caused by deficiency of Vitamin D is :	and the state
	(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. I	Excretion in humans is performed by :	
	1) Lungs (2) Kidneys	
(:	3) Liver (4) Stomach	
73. W	Thich part of the brain controls balance ?	
(1		
(3		
74. TI	ne organism that carries malaria is :	
(1)		
(3)	Anopheles mosquito (4) Housefly ly, 2025 (Forensic Science) Code-C	

Question No.	· · · · · · · · · · · · · · · · · · ·	iestions	
75.	Which blood group is univers	al donor ?	
	(1) · A	(2) B	
	(3) AB	(4) 0	
76.	SI unit of force is :	have there is not a top and the	
	(1) Joule	(2) Newton	
	(3) Pascal	(4) Watt	
77.	Which instrument is used to	measure electric current ?	T I SPI
	(1) Voltmeter	(2) Ammeter	
		(4) Thermometer	
78.		calar quantity ?	
	(1) Velocity	(2) Force	
		(4) Temperature	
79.	Speed = distance $\div$ ?	neuro regererario e a con a	
	(1) Time	(2) Force	
		(4) Pressure	(6)
80.		international and the page	r 77   .87
	(1) Air	(2) Water	(1)
	(3) Glass	(4) Vacuum	
81.	What is the average of 12, 1	.5, 18, 21 ?	
ę.	(1) 16.5 competent rebuilt	(2) 17	
	(3) 18	(4) 15 cience) Code-C	

Questic No.		uestions
82.	If 8 pens cost ₹ 40, what is	the cost of 15 pens ?-
		(2)(2) ₹ 60 stational ent/) (1)
		(* (4) ₹ 90
83.	If a man walks at 5 km/h, h early by 4 min. Find the dist	e is late by 6 min; if he walks at 6 km/h, he ance.
	(1) 5 km	(2) 6 km
	(3) 4 km	(4) 2 km
84.	Time and work : A can do a jo can finish it in :	ob in 10 days, B in 15. Working together, the
	(1) 6 days	(2) 5 days
	(3) 8 days	(4) 9 days
85.	Which number is a perfect so	uare ?
•	(1) 20	(2) 49
jenste -	(3) 45	
86.	The study of fingerprints is k	nown as :
	(1) Odontology	(2) Serology
	(3) Dactyloscopy	(4) Ballistics
87.	The chemical used to detect b	ood stains is :
	(1) D :1:	(2) Acetone
	(9) DI 11.1.1	(4) Sulfuric acid

(13)

uestion No.	Question	IS
88.	Narcoanalysis is used to :	188. If Ppuns cost 7 40, what is
	(1) Cure insomnia (2)	Enhance DNA
	(3) Extract truth (4)	Study speech
89.	The most reliable method for identif	ication is :
	(1) Dental records (2)	Fingerprints
	(3) Blood group (4)	Footprints
90.	Locard's principle refers to :	
nti ya	(1) Chemical evidence handling (	2) Transfer of evidence
	(3) Crime reconstruction (	4) Time of death estimation
91.	Electrolysis of water gives :	
	(1) H <sub>2</sub> only (2) (	O <sub>2</sub> only
	(3) $H_2$ and $O_2$ (4) (	20 <sub>2</sub>
92.	Which gas turns lime water milky ?	
	(1) O <sub>2</sub> (2) (	20 <sub>2</sub>
	(3) NH <sub>3</sub> (4) H	I <sub>2</sub>
93.	Which of these is a biodegradable polymer ?	
	(1) Polythene . (2) N	lylon
*	(3) PHB (4) P	VC
94.	The periodic table is arranged in ord	er of:
R.	(1) Mass number (2) A	tomic number
	(3) Density (4) S	ize distant of the

(14)

19

Question No.	Questions	· · · · · · · · · · · · ·
95,	An alloy of copper and zinc is :	
	(1) Bronze (2) Bras	8
	(3) Steel (4) Dura	lumin
96.	Photosynthesis occurs in :	
	(1) Roots (2) Stem	
	(3) Leaves (4) Flowe	er
97.	The green pigment in plants is :	
j.	(1) Chlorophyll (2) Hemo	globin
	(3) Xanthophyll (4) Antho	cyanin
98.	Which plant part absorbs water ?	
	(1) Flower (2) Stem	1
	(3) Leaf (4) Root	
99.	Bryophytes are also called :	
• (	(1) Seed plants (2) Amphi	bians of plant kingdom
(	(3) Vascular plants (4) Algae	
00. (	Gymnosperms differ from angiosperms in h	naving :
La Martine	(1) Enclosed seeds (2) No seed	
(	(3) Naked seeds (4) Fruits	- 1 . 4

(15)

To upload on	university website	a g
	SET-"X" (Total N	
	TION BOOKLET BEFORE TIME OR UNTIL	
PG-E	E-July, 2025 (Forensic Sc	ience)
		Sr. No. 10012
Code		4
Time : 1 <sup>1</sup> / <sub>4</sub> Hours	<b>Total Questions : 100</b>	Max. Marks : 100
Dall Ma	(in figure)	(in words)

 Roll No.
 (in figure)

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

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

Date of Birth :

Mother's Name :

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

(Signature of the candidate)

(Signature of the Invigilator)

EN ...

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

- All questions are compulsory.
   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.
- Use only Black or Blue <u>BALL POINT PEN</u> 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.	Quest	io	ns	
1.	The basic unit of life is :		Human bear has been as you	
	(1) Atom (2	2)	Cell	n o range and
	(3) Organ (4	<b>1</b> )	Tissue (E)	
2.	Mitochondria is known as the :	с. Цр	Which is the set to make W	9.0
	(1) Control center (2	2)	Protein factory	
	(3) Powerhouse (4	4)	Skeleton	
3.	Which phylum includes earthwor	rm	s?	1.005
	(1) Arthropoda (2	2)	Mollusca	
	(3) Annelida (4			
4.	The vertebral column is found in	1:	in sering follow to support	175
	(1) Insects (	2)	Snakes	
1	(3) Amoeba (	4)	Sponges	
5.	The enzyme present in saliva is	:	unia gina V	
	(1) Pepsin (	2)	Trypsin	
	(3) Amylase (	(4)	Lipase	
6.	RBCs are red due to :	tis	her bell at the lot her	.čT
	(1) Myoglobin (	(2)	Hemoglobin and dollar	
	(3) Melanin (	(4)	Albumin	
7.	The largest gland in the human	bo	dy is :	a de la composición de
	(1) Pancreas	(2)	Liver	
with a	(3) Thyroid	(4)	Salivary gland	1

Question No.	Questions	Code
8.	Human heart has how many chambers?	
	(1) 2 (0) 0	
	(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) $H_2$ and $O_2$ (4) $CO_2$	
12.	Vhich gas turns lime water milky ?	
	1) O <sub>2</sub> (2) CO <sub>2</sub>	. 192.
(3	3) NH <sub>3</sub> (4) H <sub>2</sub>	
13. V	Thich of these is a biodegradable polymer ?	
	) Polythene (2) Nylon	
· (3		
14. T	ne periodic table is arranged in order of :	154
(1		•
(3)		

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1

(2)

Question No.	Questions	pueste:
15.	An alloy of copper and zinc is :	•
	(1) Bronze (2) Brass	
	(3) Steel (4) Duralumin	
16.	Photosynthesis occurs in :	28.
	(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 :	2000 200
35	(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 :	2.0
	(1) 4 (2) 6	
(	(3) 12 (4) 14	

(3)

Question No.	Questions
22.	The most electronegative element is :
	(1) Oxygen (2) Nitrogen
	(3) Fluorine (4) Chlorine (4)
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

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Question No.		Questio	ns	
29.	The number of electrons in a magnesium ion (Mg <sup>2+</sup> ) is :			
	(1) · 10	(2)	12	
	(3) 14	(4)	8 Ab (2)	
30.	The IUPAC name o	f CH <sub>4</sub> is :		
	(1) Ethane	(2)		
	(3) Butane	(4)	Propane	
31.	What is the average	e of 12, 15, 18, 2	1?	
25	(1) 16.5	(2)	17	
	(3) 18	(4)	15	
32.	If 8 pens cost ₹ 40,	what is the cost	요즘 수 없는 것을 많은 것이 되는 것이 있는 것이 같이 많이 있는 것이 같이 많이	
	(1) ₹75	(2)	₹ 60	
	(3) ₹80	(4)	₹90	
33.	If a man walks at 5 km/h, he is late by 6 min; if he walks at 6 km/h, he early by 4 min. Find the distance.			
1	(1) 5 km	(2)	6 km	
	(3) 4 km	(4)	2 km	
34.	Time and work : A c can finish it in :		0 days, B in 15. Working together, the	
- 21	(1) 6 days	· (2)	5 days	
	(3) 8 days	(4)	9 days	

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(5)

uestion No.			Questio	ns	
35.	Whie	ch number is a perfect	square	na manina marini	
· · ·	(1)	20	(2)	49	(1)
and the second	(3)	45	(4)	81	
36.	The	study of fingerprints i	s known	as:	Usat 1 .02
	(1)	Odontology	(2)	Serology	
and the	(3)	Dactyloscopy	(4)	Ballistics	
37.	The	chemical used to dete	ct blood a	stains is :	
	(1)	Benzidine	(2)	Acetone	
	(3)	Phenolphthalein	(4)	Sulfuric acid	
38.	Narc	coanalysis is used to :		91 S. 7 S. W. W. S. 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	4311
¢ -,	(1)	Cure insomnia	(2)	Enhance DNA	
	(3)	Extract truth	(4)	Study speech	
39.	The	most reliable method	for ident	ification is :	an All. Mana a suite
	(1)	Dental records	(2)	Fingerprints	
	(3)	Blood group	(4)	Footprints	<ul> <li>(c) (1, i) (2)</li> </ul>
40.	Loca	rd's principle refers t	0:		and the second
	(1)	Chemical evidence ha	nḍling		
	(2)	Transfer of evidence			
	(3)	Crime reconstruction	de G		G
	(4)	Time of death estimat	tion		

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(6)

uestion No.	Questions	naise Lak
41.	Which of these is not a source of renewable energy ?	
	(1) Wind (2) Solar (1)	
	(3) Coal (4) Biomass	
42.	A fuse is used to :	.01
	(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 :	transfer a
	(1) 0°C (2) 50°C	7
	(3) 100°C (4) 212°C stanots	
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 (4) (4) (3)	
47.	What is the next prime number after 7?	
	(1) 9 (2) 10	
	(3) 11 (4) 13	

Question No.		Questio	ns	10. ies 177
48.	If the area of a square is	81 cm², wl	nat is its side ?	lo datal - Le
	(1) 8 cm	(2)	9 cm	1
-	(3) 10 cm	(4)	11 cm	(85) (2)
49.	A triangle has angles of	50° and 60	. What is the third an	igle ?
	(1) 60°	(2)	70°	
	(3) 80°	(4)	90°	
50.	If $3x = 12$ , then $x = ?$		nothing spectro and	and off [] fits
	(1) 2	(2)	3	eopT: (I
	(3) 4	(4)	5	oni *
51.	Transpiration occurs th	rough :		/*
1	(1) Xylem	(2)	Phloem	0.0 (10)
	(3) Stomata	(4)	Root hairs	rcol (* 1
52.	Which is not a plant ho	mone ?	bit all a second second	in ini i
	(1) Auxin	(2)	Gibberellin	asia (i)
	(3) Estrogen	(4)	Cytokinin	omo'). (5)
53.	A plant that completes	its cycle in	one season is :	
	(1) Annual	(2)	Biennial	
	(3) Perennial	. (4)	Succulent	
54.	The edible part of carro	t is :	ion in aming tash an	W IN
	(1) Root	• (2)	Stem	8
10	(3) Leaf	. (4)	Flower	

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(8)

Question No.	Questions	
55.	Which of the following is a xerophyte ?	62.
	(1) Mango (2) Cactus and (1)	
	(3) Rice (4) Lotus	
56.	Leaf base, petiole and lamina are parts of a :	53,
	(1) Stem (2) Leaf	
	(3) Root (4) Flower	
57.	Monocots have :	.10
	(1) Two cotyledons (2) Net-veined leaves	
	(3) Parallel venation (4) Tap root	
58.	The binomial name of wheat is :	65.
	(1) Zea mays (2) Oryza sativa	
	(3) Triticum aestivum (4) Pisum sativum	
<b>59.</b> <sup>7</sup>	Plants breathe through :	,ðá
Sec.	(1) Leaves only (2) Flowers	
	(3) Stomata (4) Lenticels	
60.	Plant cells differ from animal cells in having :	
2	(1) Cell membrane (2) Cell wall	
	(3) Cytoplasm (4) Ribosomes	
61.	The respiratory pigment in humans is :	0.0
	(1) Hemoglobin <sup>(2)</sup> Chlorophyll	
	(3) Albumin (4) Globulin	

uestion No.	Ques	stio	ns	estion Xos
62.	Excretion in humans is perform	ned	by: an encoded of the delay	
	(1) Lungs	(2)	Kidneys (1)	
•	(3) Liver	(4)	Stomach 2015 (2)	
63.	Which part of the brain control	s ba	lance?	.98
	(1) Cerebrum	(2)	Cerebellum	
	(3) Medulla	(4)	Hypothalamus	
64.	The organism that carries mala	ria	is:	
N	(1) Culex mosquito	(2)	Aedes mosquito	•
	(3) Anopheles mosquito	(4)	Housefly	-
65.	Which blood group is universal	dor	or? In botten is consist?	
no. Na series	(1) A	(2)	B (i)	
	(3) AB (1000 http://da.	(4)	0 - merene maline? (b)	
66.	SI unit of force is :		I a que toueste consulté :	.67
	(1) Joule	(2)	Newton	
	(3) Pascal	(4)	Watt alternold (6)	
67.	Which instrument is used to m	eas	ure electric current ?	.0.
	(1) Voltmeter	(2)	Ammeter and data (D)	
	(3) Barometer	(4)	Thermometer	
68.	Which of the following is a scale	ar q	uantity?	
	(1) Velocity	(2)	Force indolgomett (i)	
	(3) Acceleration	(4)	Temperature	

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uestion No.	Questions	18.81 0.1/1
69.	Speed = distance ÷?	
	(1) Time (2) Force	
, ,	(3) Area (4) Pressure	
70.	Light travels fastest in :	1
	(1) Air (2) Water	
	(3) Glass (4) Vacuum	
71.	The metal stored in kerosene is :	ar
	(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	

SET-X

Sec. 2

(11)

Ŧ

uestion No.	Questions						
76.	Greenhouse gas among the following is :						
	(1) N <sub>2</sub> (2) CH <sub>4</sub> (1) (1)						
·	(3) Ar $(4) O_2$						
77.	The molar mass of $H_2O$ is :	100					
	(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						
, j	(3) Aluminium (4) Zinc						
80.	Which of the following is amphoteric?						
	(1) HCl (2) NaOH sussed						
	(3) Al(OH) <sub>3</sub> (4) H <sub>2</sub> SO <sub>4</sub>						
81.	The first country to use forensic science was :						
	(1) USA (2) India						
	(3) China (4) France (4) France						
82.	DNA is extracted from :						
1	(1) Blood only (2) Hair only						
2	(3) All nucleated cells (4) Skin only						

Here aden ----- No

Code

Question No.	Questions				
83.	(1) Forensic Security Lab (2)	Forensic Science Lab	997		
<b>84.</b> 97.	in a poxicultains o rea, o pine, and	detection ? Prostate fluid Serum	91. 1111		
85.	(3) 4/3 X3b	2/5 Ninhydrin Kastle-Meyer test	92.		
86. doite	Tool mark analysis is part of :(1) Chemistry(2)(3) Forensic ballistics(4)	Physics	.88		
<b>87.</b> 99.		Study of wounds White and White Study of handwriting 2 00 (8)	s thi		
88.	(2) Imanule (2)	ts are called :	94.		
89.	Arson is the forensic study of :(1) Guns(2)(3) Explosives(4)	Joule <b>Fire</b> S : tuo edo bbo edi bai'i Voltmeter	.äe		

(13)

uestion No.	Questions						
90.	Superimposition technique is used in :						
	(1) Matc	hing DNA	(2)	Skull-face identification			
	(3) Docu	ment analysis	(4)	Injury Correlation			
91.	What comes next in the series ? 3, 6, 12, 24, ?						
	(1) 36	una an an	(2)	48			
Antonio Antonio Eliterativa	(3) 60		(4)	40			
92.	If $3x + 5 = 20$ , what is the value of x?						
	(1) 3		(2)	5			
62.	(3) 15		(4)	10			
93.	A train 120 meters long passes a man walking at 6 km/h in the same d						
A Construction of the second sec	1 10	nds. The speed of	the tra	in is :			
80.	in 10 seco	Contraction of the	an shi ti Mi	greast provision of and the little of			
. 89.	(1) 54 km	in the messing of a	(2)				
	(1) 54 km	in the messing of a	110 396	60 km/h			
94.	(1) 54 km (3) 66 km	n/h n/h n/h nyound in yi	(4)	60 km/h			
94.	(1) 54 km (3) 66 km	n/h n/h rd is different fro	(4)	60 km/h 72 km/h			
94.	<ul> <li>(1) 54 km</li> <li>(3) 66 km</li> <li>Which work</li> </ul>	n/h n/h rd is different fro re	(4) om the o	60 km/h 72 km/h thers ?			
94. 95.	<ul> <li>(1) 54 km</li> <li>(3) 66 km</li> <li>Which work</li> <li>(1) Square</li> <li>(3) Circle</li> </ul>	n/h n/h rd is different fro re	(4) om the or (2) (4)	60 km/h 72 km/h thers ? Triangle Rectangle			

Questions						
If the code for "DO	CTOR" is "FQEV	/QT", what is the code for "NURSE"?				
(1) PWTUG	(2)	PWTSE				
(3) MWTUG	, (4)	PWSUG				
If a box contains 8 red, 6 blue, and 4 green balls, the probability of picki a red ball is :						
(1) 1/3	(2)	2/5				
(3) 4/9	(4)	2/3				
Which is the correct mirror image of the letter "F"?						
(1)	(2)	f				
(3) ]	(4)	None				
Ramesh is taller tallest?	than Suresh, Su	resh is taller than Mahesh. Who is th				
(1) Mahesh	(2)	Suresh				
(3) Ramesh	(4)	Cannot say				
Which is not a unit of measurement ?						
(1) Newton	.(2)	Joule				
(3) Pascal	(4)	) Voltmeter				
	<ul> <li>(1) PWTUG</li> <li>(3) MWTUG</li> <li>If a box contains 8 a red ball is : <ul> <li>(1) 1/3</li> <li>(3) 4/9</li> </ul> </li> <li>Which is the correction of the corr</li></ul>	If the code for "DOCTOR" is "FQEX (1) PWTUG (2) (3) MWTUG (4) If a box contains 8 red, 6 blue, and a a red ball is : (1) 1/3 (2) (3) 4/9 (4) Which is the correct mirror image (1) [] (2) (3) ] (4) Ramesh is taller than Suresh, Sur tallest ? (1) Mahesh (2) (3) Ramesh (4) Which is not a unit of measurement (1) Newton (2)				

(15)

Q. NO.	A	В	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
		3	3	3
11	1	2	3	2
12	1	3	2	3
13	1			2
14	2	3	2 3	2
15	2	2		3
16	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	3 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
40	3	2	3	3
48	2	3	3	2
49	1	1	3	2
50	3	2	2	3

15/7/2000

(L,15/2/22)5

Q. NO.	wer keys of M.Sc. (Fore A	В	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
	2	3	3	4
65		2	2	2
66	2	3	2	2
67	3			4
68	3	2	3	
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	11	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
95 96	3	2	3	1
96	3	2	1	3
		4	4	4
98	2	1	2	3
99	2		3	4
100	3	4	3	4
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