ROLL NO

# M.SC. (FORENSIC SCIENCE)- 2<sup>ND</sup> SEMESTER EXAMINATIONS, JUNE 2018 (SUBJECT: BASICS OF QUESTIONED DOCUMENT EXAMINATION; PAPER CODE: 05180201)

Time:	03:00	Hrs.

Max Mark:60

#### **Instructions:**

- 1. Write your Roll No. on the Question Paper.
- 2. Candidate should ensure that they have been provided with the correct question paper. Complaints in this regards, If any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
- 3. Each Part is Compulsory. Marks are indicated against each question.
- 4. Draw the diagram wherever required.

### PART-A (OBJECTIVE TYPE QUESTIONS OMR SHEETS)

#### Attempt all questions.

(30x1=30)

- Q.1 Which of the following is NOT a characteristic of handwriting analysis?
  - a) pen pressure

b) slant

c) line spacing

- d) letter measurement
- Q.2 When police obtain a writing sample from the suspect, the sample is called a(n):
  - a) Sample

b) Exemplar

c) Screening

d) Graphology

- Q.3 What is fraudulence?
  - a) Fraudulence is forgery done for material gain
  - b) Fraudulence only applies to money and checks
  - c) Fraudulence only applies to documents and works of art
  - d) They are synonyms
- Q.4 Questioned documents include:
  - a) petitions and lottery tickets

b) rare books

c) contracts and passports

- d) all of the above
- Q.5 What acronym is used to describe the computer program that helps analyze handwriting samples?
  - a) AFIS

b) CODIS

c) NIBIN

- d) FISH
- Q.6 Which of the following statements is not true?
  - a) An individual's handwriting may show variation as a result of mood or emotional state
  - b) The handwriting of an individual is unaffected by advancing years.
  - c) The handwriting of an individual shows natural variation.
  - d) The influence of alcohol or drugs may cause variation in an individual's handwriting.
- Q.7 Handwriting samples can be a perfect match if they in fact came from the same person.
  - a) True

- b) False
- Q.8 Counterfeiting is a federal offense that involves copying
  - a) money

b) food stamps

c) social security cards

- d) all of the above
- Q.9 A ransom note left at a crime scene was found to have similar characteristics to a suspect.
  - a) The suspect can be convicted on this evidence alone
  - b) The note can be considered a match in the eyes of the court
  - c) The results of the comparison can be discussed in court by a certified document analysis expert
  - d) the paper and pen used must be located before the evidence is admissible
- Q.10 A student wrote a prescription for Xanax on a prescription pad she stole from her family doctor. She then got it filled then sold the pills at a graduation party. When she is caught, what will her some of her charges be?
  - a) forgery
  - b) fraudulence
  - c) forgery and fraudulence
  - d) only theft, because that's what started all of this
- Q.11 Exemplar writings are
  - a) Unknown writing samples

b) Suspect's writing samples

c) Known writing samples

d) Victim's writing sample

Q.1	2 What does FISH stand for?	
	<ul><li>a) Forensic Identification System of Handwriting</li><li>b) Forensic Information System of Handwriting</li></ul>	
	c) Forensic Identification Series of Handwriting	
	d) Forensic Information Series of Handwriting	
Q.1	3 Which of the following is the most common form of altered	
	<ul><li>a) Addition</li><li>c) Obliteration</li></ul>	b) Erasure d) Charred
<u> </u>		
Q.1	4 Which of the following are examples of questioned docum <ul> <li>a) Receipts</li> </ul>	b) Counterfeit money
	c) Historical documents	d) All of the above
0.1	5 When a counterfeit detection pen is used on an authentic	bill, what color does it turn?
	a) Pale blue	b) Pale yellow
	c) Blue-back	d) Pale pink
Q.1		-
	a) Typescript c) Forgery	<ul><li>b) Counterfeit</li><li>d) None of the above</li></ul>
	, , ,	•
Q.1	7 Which of the following is considered the biggest manufact a) Mexico	b) Columbia
	c) Canada	d) U.S.
0.1	8 The mood of a writer can affect his or her handwriting	•
ν	a) True	b) False
0.1	9 Ink is considered a mixture	
•	a) True	b) False
Q.2	O Passports are not an example of a possible questioned doc	ument.
	a) True	b) False
Q.2	1 The different dyes present in black ink can be separated u	
	a) chromatography	b) freezing
	c) thin layer microscopy	d) UV light
Q.2	2 The Rf value for the different colors if dye seen in our ink a) the distance traveled by the total ink dot by the distance tr	
	b) the distance traveled by the color band by the distance trav	
	c) the distance traveled by the alcohol by the distance travele	
	d) the distance traveled by the alcohol by the distance traveled	ed by the average of the dye bands
Q.2	3 Biometric signature pads determine authenticity of a sign	nature used when using a credit card by
-	analyzing what characteristics of a signature?	•
	a) spelling, letter size and letter slant	
	b) thickness of letters, nature of t-crosses and i-dots c) speed, pressure and rhythm	
	d) comparison of capital to lower case letters, angle and use	of loops
0.0		•
Q.24	4 Forgery by erasure is easy to detect using a) an infrared beam to determine ink	
	b) a microscope to examine the surface of the paper	
	c) a UV beam to determine erasure type	
	d) chromatography to analyze paper damage	
Q.25	5 A forged letter from Abraham Lincoln is an example of	
	a) literary forgery	b) check forgery
	c) historical fiction	d) counterfeit currency
Q.20	6 This machine detects alterations, obliterations, erasures a	- 1.5 T T - T - 1
	<ul><li>a) Video Spectral Comparator</li><li>c) Electrostatic Detection Device</li></ul>	b) Infrared spectroscope d) Biometric Signature Pad
0.22		•
Q.2	7 This technique is used to determine individual dye compo- a) Infrared spectroscopy	b) Electrostatic Detection
	c) Chromatography	d) Graphology
Q.28	This device can be programmed to evaluate and record th	,
-	signature	. , , ,
	a) Infrared Spectroscope	b) Biometric Signature Pad
	c) Video Spectral Comparator	d) Electrostatic Detection Device

Q.29 Adding to a number to make it look like a larger amount is considered what type of forgery?						
a) Obliteration	b) Alteration					
c) Overwriting	d) Freehand					
Q.30 Bleaching, burning, or using a laser to g	Q.30 Bleaching, burning, or using a laser to get rid of a document is considered what type of forgery?					
a) Obliteration	b) Alteration					
c) Overwriting	d) Freehand					

# **PART-B (DESCRIPTIVE TYPE QUESTIONS)**

Q.1 Attempt all questions:-		
a) Define Forgery. What are its types? Explain Trace	ed forgery. (5)	j
b) Differentiate between:	(2.5×2=5)	j
i. Typebar and Typewheel typewriters		
ii. Fake and Genuine Currency note		
c) What are printing processes? Explain the printing	process used for Indian currency note. (5)	)
d) What are standards for comparison? Which one is	better and why? (5)	j
e) What are handwriting characteristics? How age ar	nd health affect individual's handwriting? (5)	)
f) What do you understand by the term Alterations in	n Documents? How one can alter a document? (5)	i

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				Roll No.	
	Sc (FORENSIC SCIENCE) 2 <sup>ND</sup> CCS OF FORENSIC CHEMIST				
Time	e: 03:00 Hrs			Max. N	Aarks: 60
1. W 2. Car ar er 3. Pa	ructions:  /rite Roll No. on the Question Paper.  andidate should ensure that they have been property, should be made within 15 minutes of the contertained thereafter.  arts of a question should be attempted in sequence of the property of the content of the con	ommenceme	nt of the exam. I	No complaint in this regard	
	PART – A (OBJECTIVE T	(YPE QUI	ESTIONS O	MR SHEETS)	(30X1=30)
Q.1.	Collection of poisonus gas sample fra) Bucket b) Plastic bo		is done by Balloon	d) None of the	above
Q.2.	Narcotic drugs and Psychotropic sub a)Poison Act 1919 b)Dangerous o d)Drugs Control Act-1950		•	e) Drugs &Cosmetic a	ct1940
Q.3.	Concentration of morphine is standa a) 5 % b) 7%	rd opium i:	<b>c)</b> 10%	<b>d)</b> 15%	-
Q.4.	Highly addicting drug of abuse is <ul><li>a) Bhang</li><li>b) Charas</li></ul>	c)	Heroin	d) Amphetam	ine
Q.5.	Active form of the active principle o a)Cannabinol b)Cannabidiol canna acide	_	Tetrahydro ca	annabinol <b>d)</b> Tetrahy	dro
Q.6.	Ganja is a prepration made from can <ul> <li>a) Dried leaves</li> <li>b) floweri</li> <li>d) Resin from stem</li> </ul>		g female plant	c) sweet from l	eaves
Q.7.	'Knock out drops' to render a person a)Dhatura b) Methac		n robbery is <b>c)</b> Chloral h	iydrate <b>d)</b> Barbitu	rate
Q.8.	Hallucinogenic drugs include follow <ul><li>a) Mescaline</li><li>b) Psylocy</li></ul>		c) Phencycl	indine <b>d)</b> Methad	one
Q.9.	Nux Vomica is :				

a) Vegetable poison containing atropinec) Used as a cattle poison

b) Junk

Q.10. Heroin is also known as following except

a) Smack

b) Seed containing strychnined) Use to induce vomiting in poisoning

d) speed

c) Dope

Q.11,	. Marsh test is for detection	n oi	*	
	a) Alkaloid detection		on c) Arsenic	d) Narcotics
Q.12.	Who is Knon as father of a) Mathieu orfila	'Toxicology' b) James Marsh	c) J v fraunhofer	<b>d)</b> Fred
Q.13.	Jean stas developed in 18 a) Vegetable alkaloids poisoning		c) Arsenic	d) Nicotine
Q.14.	Who developed paper chr a) Mathieu orfila Bunsenand	omatography first <b>b)</b> Mikhail Tsvet	c) James Marsh	d) Robert
Q.15.	In which year complet IR  a) 1930	Spectrometer with it b) 1880	nterferometer developed c) 1948	<b>d)</b> 1949
Q.16.	AA Spectrophotometer w a) 1960	as developed in the y b) 1930	/ear <b>c</b> ) 1948	<b>d)</b> 1955
Q.17.	When the Velocity of exp  a) Explosion	losion id 400 Meters <b>b)</b> Detonation	Per second it is called c) Blast	d) High explosion
Q.18.	When explosives explode  a) Noise	they produce b) Heat	c) Light	d) All the above
Q.19.	Black Powder is a mixture a) Potassium Nitrate, Sul c) Potassium chlorate, su	phur and charcoal	<ul><li>b) Arsenic sulphide &amp;</li><li>d) Nitrocellulose and ?</li></ul>	
Q.20.	Principal constituent of a ca) Black powder	dynamite is <b>b)</b> Nitroglycerine	<b>c)</b> T.N.T	<b>d)</b> R.D.X
Q.21.	Which explosive is militar  a) Nitroglycerine	y grade. <b>b)</b> R.D.X	<b>c)</b> T.N.T	d) Black powder
Q.22.	Which explosive is used in a) Potassium Nitrate	n demolition\ mining <b>b)</b> R.D.X	c) Nitroglycerine	<b>d)</b> T.N.T
Q.23.	The Main constituents of t a)Black Powder & Potass c) Potassium nitrate and s	ium chlorate b)	mbs are Charcoal & Arsenic sulp Potassium chlorate & Ar	

Q.24	. Wl	hich is non destruc	tive instrumental techniqu	e	•	
	a)	UV-Visual	b) AAS	c) FTIR	d) HPLC	
Q.25	. Wł a)	nich one is colour Trasparent	of aviation fuel (dye of ful- b) Green	e) c) Pink	<b>d)</b> Red	
Q.26		nich one has lowes Paraffins	t density b) Aromatics	c) Cycloparaffins	d) Kerosene	
Q.27.		nsity of standard P 0.790-0.770	Petrol is (in gm\cm <sup>3</sup> ) <b>b</b> ) 0.690.620	c) 0.730-0.790	<b>d)</b> 0.720-0.735	
Q.28.		Colour of Premit White	um petrol (dye colour is ) b) Green	c) Red	d) Orange	
Q.29.	Vel a)	ocity of detonation 6900m\sec	n of TNT is <b>b)</b> 5900 m\sec	c) 7200 m\sec	<b>d)</b> 5200 m\sec	
Q.30.	The a)	speed of the com 1100 KMPH	pressed air\ blast waves in <b>b)</b> 10,00 KMPH	high explosive is up c) 1200 KMPH	to d) 18000 KMPH	
			PART – B (DESCRIPT)	(VE TYPE)		
Q.1. Q.2.	anal Desc	lytical techniques	of Arson\fir cases, Physica used in analysis achniques for the analysis	•		(10)
Q.3.	a) \	What are the corre	osive poisons? Describe an nalysis of insecticides in V	•	ons	(10) (5) (5)

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ROI		1.0	

Max Mark:60

# M.SC. (FORENSIC SCIENCE) - 2<sup>ND</sup> SEMESTER EXAMINATIONS, JUNE 2018 (SUBJECT: BASICS OF FORENSIC BIOLOGY AND SEROLOGY; PAPER CODE: 05180203)

Time: 03:00 Hrs.

<u>Ins</u>	structions:			-
1.	Write your Roll No. on the Question Paper.			
2.	Candidate should ensure that they have been provided wi	th the	correct question paper. Complaints in this	}
	regards, If any, should be made within 15 minutes of the con	mmen	cement of the exam. No complaint(s) will be	)
	entertained thereafter.			
3.	Each Part is Compulsory. Marks are indicated against each quality	uestior	1.	
4.	Draw the diagram wherever required.			
	PART-A (OBJECTIVE TYPE QUE	STIO	NS OMR SHEETS)	
Att	tempt all questions.			(30 x1=30)
Q.1	Do all people secrete their blood type into their bodily fluids	?		•
	a) Yes, 15% of the population are secretors!			
	b) No, 15% of the population are non-secretors!			
Q.2	Which blood type is the UNIVERSAL DONOR (they can girth Rh antigen)?	ve blo	od to any other blood typenot factoring the	
	a) AB	b)	<b>B</b>	
	c) A	d)	0	
Q.3				
	a) genotype; phenotype	b)	phenotype;genotype	
Q.4	What type of evidence is blood type?			
	a) class	b)	individual	
Q.5	Which type of crime scene would you most likely find saliva	?		
	a) sexual assault	b)	hit and run	
	c) arson	d)	burglary	
Q.6	Review: In DNA, what pairs with Adenine and with how ma	ny hyd	rogen bonds?	
	a) Thymine, 2		Guanine, 2	
	c) Thymine, 3	d)	Cytosine, 3	
<b>Q.7</b>	what is the time between death and the discovery of the body	called		
	a) PMI	b)	TMI	
	c) DNA	d)	entomology	
Q.8	can be used to test a corpse for the prese		•	
	a) maggots     c) entomologists	b) d)	dragonflies moths	
0.0	-	u)	mours	
Ų.9	Diptera are a) flies	b)	beetles	
	c) bees	d)	birds	
Q.10	What are coleoptera?	- /		
	a) beetles	b)	flies	
0.11	Which one of the following would be on a dead body in the	early s	tage of decomposition?	
~~~	a) blow flies		house flies	
	c) cheese skippers	ď)	beetles	
			•	

Q.12	What is clumping of Red Blood Cells Called?		
	<ul><li>a) Agglutination</li><li>c) Antibody</li></ul>	b) d)	Antigen Thrombocyte
Q.13	What blood type has neither A nor B antigen proteins?		
	<ul><li>a) Type A</li><li>c) Type AB</li></ul>	b) d)	Type B Type O
Q.14	Which test is used to determine if a blood sample is human?		
	<ul><li>a) Kastle-Meyer</li><li>c) Precipitin</li></ul>		Luminol Huminal
Q.15	Which test is used to detect invisible blood stains?	,	
	a) Kastle-Meyer c) Precipitin	b) d)	Luminol Huminal
<b>Q.16</b>	Blood Typing is considered what type of evidence?	۳)	· · · · · · · · · · · · · · · · · · ·
	<ul><li>a) Individual</li><li>c) Trace</li></ul>		Class Physical
0.17	Which part of the human blood can be used to forensically ide	•	•
<b>~</b> .•	a) platelets	b)	plasma cells
<b>\ 10</b>	c) antigens Which pieces of evidence would be used to substantiate a rape	•	antibodies
2.10	a) blood and semen		hair and fibers
	c) physical injuries	d)	all of these
2.19	Which of the following is NOT directly important to the foren a) platelets		spect of blood identification red blood cells
	c) blood serum		antigens
2.20	The backbone of a DNA molecule is made of a) sugar and base	b)	sugar and phosphate
	c) base and phosphate		sugar only
2.21	A nucleotide is made up of	L)	
	<ul><li>a) sugar only</li><li>c) sugar, phosphate and base</li></ul>	b) d)	phosphate and sugar sugar and base
2.22	Which of the following is used to make numerous exact copies		No.
	<ul><li>a) STR</li><li>c) Southern Blotting</li></ul>		gel electrophoresis PCR
2.23	Who determined the structure of the DNA molecule?	,	
	a) Mendel c) Darwin	b) d)	Watson and Crick Franklin
.24	Mitochondrial DNA can identify a person based on their	Ψ,	
	a) father c) children	b) d)	mother siblings
.25	Insect stage after the egg hatches	u)	storings
	a) 1st instar	b)	pupae
26	c) 2nd egg stage  Ambient temperature is	d)	adult
2.20	a) temperature of the amb's	b)	temperature of the surrounding air
. 25	c) temperature of the water	d)	temperature of the dead body
.2/	Carrion means a) dead meat	b)	dead vegetables
	c) dead insects	d)	slang for "carry on"
	What might a forensic scientist be asked to do in a murder trial a) Identify whose blood is on the murder weapon	l?	
	b) Testify to the mental state of the accused		
	c) Talk about the illegal accounting practices of the victim		

a) Twenty days old	the stain was:  b) Animal blood
<ul><li>c) An accidental spill.</li></ul>	d) Caused by the killer.
.30 I am blood type B What are a	the blood types can I receive?
a) A-,B-,O-	b) B-,B+,O-,O+
c) B-,B+	d) B-,O-

Q.1 Atter	mpt all questions:-	
a)	What is Seminal fluid? Write its composition. How will you identify the suspect from his semen sample?	(5)
b)	Differentiate between:	(2.5×2=5)
	i. Teichmann and Takayama tests	, ,
	ii. Blood Group A and AB	
c)	What are the primary tests for the identification of blood?	(5)
d)	A dead body was found in the fields with the blow flies over it. How will you estimate the time since	` ,
	death, when the weather conditions are hot?	(5)
e)	What do you know about the illegal trade of wildlife species? Comment on Traditional Chinese	` ,
	Medicine.	(5)
f)	Define Hair. Draw a neat and labelled diagram. Write its forensic significance.	(5)

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Roll	No.		

# M. Sc (Forensic Science) – 2<sup>nd</sup> SEMESTER EXAMINATIONS; JUNE 2018 (SUB:- FORENSIC PSYCHOLOGY – II; PAPER CODE:- 05180205)

Tim	1e: 03 hrs				N	Aaximum Ma	rks: 60
Inst	tructions:					- M	
1. 2. 3.	any, should be made witl entertained thereafter.	ne Question Paper. that they have been provication 15 minutes of the com Marks are indicated again	mencei	nent of the exam. N	iper. Coi lo comp	mplaint(s) in this laint in this regar	regard, if d will be
4.	Draw diagram wherever i		·	question.			
	PART – A (OB.	JECTIVE TYPE QU	ESTI				and the second s
Sing	gle response Question-						(15x1=15
Q.1	Delusion is a disorde	er of					( =
	a. Thought	b. Perception	c.	Insight	d.	Cognition	
Q.2		eoccupied with feelin	g of il	lness, diagnosis	is -		
	a. Hypochondriasis			Somatization di	sorder		
	c. Conversion disord	er	d.	Obsession			
Q.3	False perception with	•	ılus is	-			
	a. Illusion	b. Hallucination	C.	Delirium	d.	Delusion	
Q.4	Hallucination is disor	•					
	a. Perception	b. Thought	c.	Memory	d.	Intelligence	
Q.5	Illusion is						
	a. Misinterpretation of	· ·		False firm belie			
	c. Absence of sensory	y stimulus	d.	Hearing of voice	es		
Q.6	Kleptomania means-						
	a. Irresistible desire o	Č		Irresistible desir			
	c. Irresistible desire to	o dress like opposite s	ex d.	Irresistible desir	e to set	t fire things	
<b>Q.</b> 7	Visual hallucination a		en in				
	a. Delusional syndror	ne		Delirium			
	c. Mania		d.	OCD			
Q.8	Phobia is						
	a. Psychosis	b. Fear of animal	c.	Anxiety	d.	Neurosis	

Q.9				Inagnity			7	
	<ul><li>a. Intracerbral Hemorhage</li><li>c. Subdural hemorrhage</li></ul>		<ul><li>b. Insanity</li><li>d. Alcohol intake</li></ul>					
	c. Sucuara nomorma	<b>5</b> *					•	
Q.10	Q.10 Fluctuating level of consciousness is seen in-							
	a. Hysteria	b. Delirium	c.	Dementia	d.	Mania		
0.11	Right and wrong test is	s used in.						
Q.11	a. Insanity	b. Alcoholism	c.	Identification	d.	Schizophrenia		
	y					1		
Q.12	McNaughten rule is re	lated to-						
	a. Section 84 IPC	b. Section 85 IPC	c.	Section 56 IPC	d.	Section 87 IPC		
O 13	Repetitive hand washing	ng is a symptom of -						
Q.13	a. Post-traumatic stres		b.	Depression				
	c. Anorexia-nervosa		d. Obsessive compulsive disorder			4		
Q.14	Lie-detector is also known			Nama	.1	A 11 - C (b. c b. c c.		
	a. Polygraphy	b. brain mapping	c.	Narcoanalysis	a.	All of the above		
<ul> <li>Q.15 Forensic psychiatry is-</li> <li>a. It is administration of psychiatry in administration of justice.</li> <li>b. It is judicial delivery system.</li> <li>c. It deals with the study, diagnosis and treatment of mental illness.</li> <li>d. None of the above</li> </ul>								
True	/False Questions-						(5x2=10)	
	<del>-</del>	uestions is asked to the	sus	pect has its corrobora	ativ		,	
	investigation of cases.							
	a. True	b. False					, · ·	
Q.17	Narcoanalysis requires a. True	administration of augn b. False	nen	tin (I.V) to the suspe	ct i	n supine position.		
0.18	Voice stress analyzer,	analysis is done by depi	ictii	ng quality of sound.				
	a. True	b. False						
Q.19	•	be done in the presence	of i	medical expert.				
	a. True	b. False						
Q.20	Q.20 Lucid interval is period of consciousness between two consecutive conscious state.							
-	a. True	b. False						

### **Multiple Choice Questions-**

(2.5x2=5)

### Q.21 Erotomania is delusion in which-

- a. the person believes that someone is deeply in love with him/her.
- b. person develops an obsession for a particular person and starts believing that the other person is reciprocating.
- c. None of the above.
- d. Only a is correct.

### Q.22 Brain mapping is

- a. It is also known as Brain Electrical oscillation signature.
- b. Neuronal activity of the brain generates rhythms where millions of cells depolarize in synchrony.
- c. Only one is correct
- d. None of the above.

### PART - B (DESCRIPTIVE TYPE QUESTIONS) (30 MARKS)

## Write Short Notes on the following Questions:

(5x6=30)

- Q.1 Narcoanalysis
- Q.2 Voice stress analyzer
- Q.3 Polygraphy
- Q.4 Legal insanity
- Q.5 McNaughten Rule

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