2.175

Set No. : 1

RET/17/TEST-B

Question Booklet No.

639 Forensic Medicine

	(To be fil	led up by	the candi	date by b	lue/blac	k ball p	oint p	en)		
Roll No.										
	Vrite the d		53							
	of OMR A									
Day and D	ate			···						
							(Sign	ature of	f Invigila	tor)

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- Within 30 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, Bring it to the notice of the Superintendent/Invigilators immediately to obtain a fesh Question Booklet.
- Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet no. on the Question Booklet.
- Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- For each question, darken only one circle on the Answer Sheet. If you darken more than one circle of darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
- 11. For rough work, use the inner back pages of the title cover and the blank page at the end of this Booklet.
- 12. Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he she shall be liable to such punishment as the University may determine and impose on him her.

Total No. of Printed Pages: 20

ROUGH WORK

रफ़ कार्य

Research Entrance Test-2017

No. of Questions: 50

प्रश्नों की संख्या: 50

Time: 2 Hours Full Marks: 200

समय : २ घण्टे पूर्णाङ्क : २००

Note: (1) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

इस प्रश्न पुस्तिका में 40 वस्तुनिष्ठ व 10 लघु उत्तरीय प्रश्न हैं।

- (2) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
 - अधिकाधिक वस्तुनिष्ट प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ट प्रश्न 3 (तीन) अंकों का है। प्रत्येक गलत उत्तर के लिए 1 (एक) अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ट प्रश्नों के एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।
- (3) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

केवल 5 (पाँच) लघुउत्तरीय प्रश्नों के उत्तर दें। प्रत्येक प्रश्न 16 (सोलह) अंकों का है तथा उनका उत्तर 150-200 शब्दों के बीच होना चाहिए। इसके लिए इस पुस्तिका में लगे हुए सादे 5 (पाँच) पृष्टों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ट से, प्रश्न संख्या लिखकर शुरू करें।

01.	Whi	ch kidney Disease is a "Global I	Public	c Health [*] Problem Worldwide ?
	+1)	Acute Kidney Injury (AKI)		
	(2)	Kidney Stone		
	+3)	Chronic Kidney Disease (CKI	O)	
	(4)	Renal Papillary Necrosis		
02.	Whi	ch Virus affects mainly Huma	n Imr	nune System ?
	(1)	Hepatitis A Virus (HAV)		
	(2)	Parvo Virus B19		
	(3)	Cytomegla Virus (CMV)		
	(.1)	Human Immunodeficiency Vi	rus (HIV
03.	Whi	ch BHU Alumnus is honoured	with	"Bharat Ratna" ?
	(1)	Prof.K.N.Udappa	(2)	Prof.O.N.Srivastava
	(3)	Prof.C.N.R.Rao	(4)	Prof.R.D.Dwivedi
04.	Whi	ch of the following drug is use	d as	"Immunosuppression" ?
	111	Citrofloxocin	(2)	Aspirin
	(3)	Ampicellin	(4)	Cyclosporine
05.	The	Probability of a particle to cros	ss a t	parrier of height more than the
		etic energy of the particle is		
	(1)	zero	(2)	one
	(3)	between zero and one	(4)	50%

06.	Deficiency of which of the following mineral nutrients induces dental				
	carries and mottled enamel?				
	(1)	Molybdenum	(2)	Cobalt	
	(3)	Fluorine	(4)	Iron	
07.	Oxio	dation number of Iodine is hig	hest	in which compound?	
	(1)	KI	(2)	KI ₃	
	(3)	IF ₅	(4)	KIO,	
08.	In u	hich part of our body, antibod	lies a	are formed 2	
00.		7. (Factors			
	(1)	Brain	(2)	Lungs	
	(3)	Bone marrow	(4)	Spleen	
09.	Whi	ch of the following sensatio	ns is	s not generated by impulses	
	initiated in naked nerve endings?				
	(1)	Touch	(2)	Pain	
	(3)	Cold	(4)	Smell	
10.	Sou	nd cannot travel through :			
	(1)	Air	(2)	Water	
	(3)	Fire	(4)	Vacuum()	
11.	Som	nmer's movements of Forensic	Medi	cine are associated with:	
0.000,000,00	(1)	Decomposition	(2)	rigor mortis	
	(3)	Post mortem lividity	(4)	Mummification	

12.	Fatl	ner of Modern toxicology is:		
	(1)	J. Cameron	(2)	Alfred
	(3)	Orfila	(4)	Rokitansky
13.		process which causes drying afficient degree to halt putrefa		tissues and internal viscera to is called :
	(1)	Saponification	(2)	Adipocere formation
	(3)	Mummification	(4)	Puterfaction
14.		perature of the body rises up bable condition includes the		the first 2 hrs after death. The ing except :
	(1)	Sun stroke	(2)	Frost bite
	(3)	Septicemia	(4)	Tetanus
15.	Тур	ical injury in a bomb explosio	on is :	
	(1)	Abrasion		
	(2)	Punctate bruises		
	(3)	Puncture laceration		
	(4)	A triad of punctuate bruises	, abra	sions and puncture lacerations
16.	Arb	orescent markings are due to) ;	
	(1)	Dry burns	(2)	Scalds
	(3)	hanging	(4)	Lightning
17.	The	most common type of haeme	orrhag	ge seen in boxers is :
	(1)	Extradural	(2)	Subdural
	(3)	Subarachnoid	(4)	Intracerebral
18.	Wh	ich of the following is more da	ingero	ous in causing spinal damage?
	(1)	Hyperextension of the neck		
	(2)	Hyperflexion of the neck		
	(3)	Both hyperflexion and hype	rexte:	nsions of the neck
	(4)	None can cause spinal dam	age	

19.	Gre	enish colour in a contusion is	due	to:
	(1)	Haemosiderin	(2)	Haematoidin
	(3)	Sulphmethemoglobin	(4)	Methaemoglobin
20.	Gut	tter fracture is caused by :		
	(1)	A firearm missile glancing a	long	the outer table of the skull
	(2)	Falling into a shallow gutter		
	(3)	Falling into a river or any ot	her b	ody of water
	(4)	Both (b) and (c)		
21.		the skull, fractures caused no cance away from it is known as		the point of impact, but some
	(1)	Diagonal fractures	(2)	Atypical skull fractures
	(3)	Bursting fractures	(4)	Depressed fractures
22.	For	diatom test, the best site for	akin	g samples is :
	(1)	Lungs		
	(2)	Bone marrow in ulna		
	(3)	Bone marrow in femur		
	(4)	A large and fleshy muscle		
23.	Cya	nide is toxic because it :		
	(1)	Inhibits cytochrome C oxida	se	
	(2)	Forms cyan meth-Hb		
	(3)	Inhibits ATP carrier in mitoc	hond	ria
	(4)	Inhibits Na'-K' ATPase		
24.	Hos	tile witness comes under :		
	(1)	IPC 191	(2)	IPC 171
	(3)	IPC 141	(4)	IPC 131

25.	A bo likel	oy has 16 permanent te y to be :	eth and 8	temporary	teeth.	His	age i
	(1)	09 yrs	(2)	10 yrs			
	(3)	11 yrs	(4)	12 yrs			
26.	juve	nile is a girl who has not	attained t	the age of :			
	(1)	12 years	(2)	14 years			
	(3)	16 years	(4)	18 yesrs			
27.	Rok	itansky's method is :					
	(1)	An autopsy technique for	r infants				
	(2)	Used in heavy metal det	ection				
	(3)	Used for estimation of a	ge using s	kull sutures			
	(4)	Used in brain mapping					
28.	Whi	ch of the following is NO1	f a cause o	of death due	to suff	ocati	on 3
	(1)	Smothering	(2)	Choking			
	(3)	Gagging	(4)	Throttling			
29.	All a	are grievous hurts EXCEP	T:				
	(1)	Dislocated shoulder					
	(2)	Incised wound on abdor	ninal wall	without per	itoneal	inju	$L_{\mathcal{L}}$.
	(3)	Nasal bone fracture					
	(4)	Permanent disfiguremen	it of face				
30.	Sex	ual asphyxia is seen in :					
	(1)	Transvestism	(2)	Frotteurisn	1		
	(3)	Masochism	(4)	Tribadism			
31.	Cha	ras is:					
	(1)	Leaves of Cannabis indi	ca				
	(2)	Flowers of Cannabis ind	lica				
	(3)	Stem of Cannabis indica	ì				
	(+)	Resin exudates of canna		ı			

32.	Spe	cimens for toxicological studi	es are	e preserved in :
	(1)	10% formaldehyde		
	(2)	Alcohol		
	(3)	Supersaturated solution of o	comm	on salt
	(4)	Normal saline		
33.	Atro	opine is contraindicated in :		
	(1)	Mushroom poisoning	(2)	Oleander poisoning
	(3)	Datura poisoning	(4)	Organophosphorus
34.	The	colour of postmortem stainir	ng is b	prick red in poisoning with:
	(1)	Carbon monoxide	(2)	Phosphorous
	(3)	Cyanides	(4)	Carbon dioxide
35.	Zin	phosphide is a :		
	(1)	Contact poison	(2)	Respiratory poison
	(3)	Stomach poison	(4)	Hemotoxin
36.	'Luc	eid Interval' may be seen in :		
	(1)	Extradural haemorrhage	(2)	Insanity
	(3)	Subdural haemorrhage	(4)	Both A and B
37.	Tele	efone is :		
	(1)	Pulling of hair	(2)	Beating on soles
	(3)	Beating on ears	(4)	Beating on fingers
38.		fetus can be considered viab ears :	le if tl	he following ossification center
	(1)	Calcaneum	(2)	Manubrium sterni
	(3)	Lower end of femur	(4)	None of the above

- 39. In India, magistrate inquest is done in the following cases, EXCEPT:
 - [1] Exhumation cases
 - (2) Dowry deaths within 5 years of marriage
 - (3) Murder cases
 - (4) Death of a person in police custody
- 40. Same charged two proteins separation is done by :
 - (1) Agarose

(2) DEAE Cellulose

(3) Sephadex

(4) None

Short Answer Questions

- **Note:** Attempt any **five** questions. Write answer in **150-200** words. Each question carries **16** marks. Answer each question on separate page, after writing Question Number.
- **01.** What are different methods of collection of physical evidences from a crime scene?
- 02. What is Forensic toxicology? Enumerate different war gases used in modern warfare.
- O3. Enumerate the samples to be collected from a victim of sexual assault. Describe in brief about preservation and transport of those samples to a Forensic Science Laboratory.
- **04.** Describe/Enumerate the role of blood grouping in Forensic Medicine/Science.
- **05.** What are trace evidences? Describe in brief the importance of hair in crime detection.
- **06.** What are modern methods for Crime detection? Describe in brief about any one.
- 07. enumerate the role of X-rays in Forensic Medicine.
- 08. How will you investigate a case of suicidal hanging?
- **09.** What the entire factor that affects the damaging power of a bullet? Describe in brief about primary and secondary cavitations.

10. Discuss the principles of Gas Chromatograph. Describe the advantage of Mass Spectrophotomerty (GC-MS) in addition to Gas Chromatograph. Enumerate the poisons that can be detected by GC-MS.

ROUGH WORK

रफ़ कार्य

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली-काली बाल-प्वाइंट पेन से ही लिखे)

- प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख ले कि प्रश्नपत्र में सभी पृष्ट मीजूद है और कोई प्रश्न छूटा नहीं हैं। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निर्गक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
- उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा।
 केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- 4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखे।
- 5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्नपुस्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपिरलेखन की अनुमित नहीं है।
- उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिए आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।
- प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाड़ा करे। एक से अधिक वृत्ते को गाड़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो संबंधित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
- एक कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के ऑनिय पृष्ट का प्रयोग करें।
- परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दे।
- परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वार निर्वापित दंड का की, भागी होगा होगी।