

2016

Set No. : 1

Question Booklet No.

RET/16/TEST-B

639

Forensic Medicine

(To be filled up by the candidate by blue/black ball point pen)

Roll No.

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Roll No. (Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

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

1. 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 fresh Question Booklet.
2. 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.
5. *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.*
7. *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.*
9. For each question, darken only **one** circle on the Answer Sheet. If you darken more than one circle or 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 : 16

RET/16/TEST-B

639/Forensic Medicine

ROUGH WORK

रफ़ कार्य

Research Entrance Test-2016

No. of Questions : 50

प्रश्नों की संख्या : 50

Time : 2 Hours

Full Marks : 200

समय : 2 घण्टे

पूर्णाङ्क : 200

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 वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ठ प्रश्न **3 (तीन)** अंकों का है। प्रत्येक गलत उत्तर के लिए **1 (एक)** अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ठ 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)** पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ठ से, प्रश्न संख्या लिखकर शुरू करें।

- 01.** Which of the following is not synthesized in postganglionic sympathetic neuron ?
(1) L-DOPA (2) Dopamine
(3) Norepinephrine (4) Epinephrine
- 02.** Which of the following drug is a tranquilizer ?
(1) LSD (2) Atropine
(3) Lithium (4) Chlorpromazine
- 03.** Hysterectomy is the removal of ?
(1) Kindly (2) Uterus (3) Ovary (4) Testis
- 04.** Which of the following is not essential for normal biosynthesis of thyroid hormone :
(1) Iodine (2) ferritin (3) Thyroglobulin (4) TSH
- 05.** Select the best statement for Lymphocytes :
(1) are unaffected by hormones
(2) all originate from the bone marrow
(3) are part of the body's defense against cancer
(4) convert to monocytes in response to antigen
- 06.** Basic principle involved in the doctor's thermometer (mercury thermometer) is :
(1) Thermal expansion of liquid
(2) Thermal expansion of gas above the liquid in the thermometer
(3) Capillary action
(4) None of the above
- 07.** The compound which serves as antioxidant in living systems and plays a key role in detoxification is :
(1) glutathione (2) glutamate
(3) proline (4) tetrahydrofolate

08. Which of the following vitamins regulates Ca^{2+} metabolism ?
(1) Vitamin A (2) Thiamine
(3) Ascorbic acid (4) Vitamin D
09. An example of antioxidant enzyme is :
(1) Superoxide dismutase
(2) Choline oxidase
(3) Phenylalanine ammonia lyase
(4) Alcohol dehydrogenase
10. The organ of the body mainly damaged in hepatitis is :
(1) Heart (2) Liver (3) Kidney (4) Eye
11. Which is correct regarding puppe's rule :
(1) To know the type of weepoon used
(2) To know the intensity of force used
(3) To Know the sequence of shots made
(4) Does not help in crime investigation
12. Best forensic sample for DNA analysis is :
(1) Blood in EDTA (2) Hair
(3) Femur bone (4) Vitreous humor
13. Mitochondrial DNA inheritance is transmitted from :
(1) Mother (2) Father
(3) Grand father (4) Grand mother
14. Thanatology deals with :
(1) Injuries (2) Death in its all respects
(3) Death from thermal injuries (4) Death from thunder
15. Section 174 I.P.C. deals with :
(1) Inquiry (2) Inquest
(3) Murder (4) Exhumation

- 16.** The witness who testifies the facts observed by him is a :
(1) Hostile witness (2) Skilled witness
(3) Expert witness (4) Common witness
- 17.** Klinefelter's is :
(1) Chromatin positive
(2) Chromatin negative
(3) Chromatin positive in 10% cases
(4) Chromatin positive in 5% cases
- 18.** Chromosomal defects is seen in all except :
(1) Intersex (2) Concealed sex
(3) Pseudo hermaphrodite (4) True hermaphrodite
- 19.** Age between 25 to 60 years can be estimated by :
(1) X-rays of wrist (2) X-rays of knee
(3) X-rays of vertebral column (4) Gustafson's method
- 20.** Lanugo hair's are :
(1) Pigmented (2) Medullated
(3) Scale pattern is complex (4) Thin and soft
- 21.** In suspected case of air embolism, search for embolism is to be done in :
(1) Circle of Willis (2) Meningeal vessels
(3) Abdominal aorta (4) Right ventricle of heart
- 22.** Apoplexy is the term used for :
(1) Cerebral congestion (2) Cerebral ischaemia
(3) Cerebral anoxia (4) Cerebral concussion
- 23.** The order of onset of rigormotis is :
(1) Lower limb-thorax-eyelids (2) Eyelids-thorax-lower limbs
(3) Thorax-eyelids-lower limbs (4) Eyelids-lower limbs-thorax

- 24.** Aseptic autolysis is seen in :
(1) Maceration (2) Mummification
(3) Adepocere (4) Putrefaction
- 25.** If a person is not heard for years by his relatives or friends, it is presumed that he has died :
(1) 2 years (2) 5 years
(3) 7 years (4) 12 years
- 26.** Brush burn is due to :
(1) Friction injury (2) Thermal injury
(3) Firearm injury (4) Electrical injury
- 27.** Bruise will occur easily during suffering from the following disease conditions, except.
(1) Leukaemia (2) Vitamin K deficiency
(3) Anaemia (4) Thrombocytopenia
- 28.** Antemortem fracture differs from postmortem fracture by :
(1) Effusion of blood (2) No sign of injury over skin
(3) Communitied type (4) Lack of oedema
- 29.** In a postmortem burn which is not true :
(1) Line of redness (2) Increase in enzymes
(3) Vesicle formation (4) Non albuminus
- 30.** Which of the following is for asphyxia :
(1) Magnus test (2) Diaphanous test
(3) Icard's test (4) Tardieu's test
- 31.** The most important cause of temporary impotency is :
(1) Over excitement (2) Guilt
(3) Fear (4) Aversion

- 32.** The common site of rupture of hymen is seen on the :
(1) Anterior aspect (2) Posterior aspect
(3) Lateral aspect (4) Postero-lateral aspect
- 33.** An old blood stain in a cotton fibre can be kept identified by :
(1) Haematin test (2) Precipitin test
(3) Benzidine test (4) Leuco-malachite test
- 34.** Acid phosphatase test used for detecting :
(1) Blood stains (2) Seminal stains
(3) Blood groups (4) Bone typing
- 35.** Teeth are chalky white in poisoning due to :
(1) Sulphuric acid (2) Nitric acid
(3) Hydrochloric acid (4) Acetic acid
- 36.** Purple line over Gum is suggestive of poisoning with :
(1) Lead (2) Mercury
(3) Copper (4) Iron
- 37.** A stripped line called 'Bartonian line' is seen on the gums in :
(1) Copper poisoning (2) Mercury poisoning
(3) Phosphorus poisoning (4) Lead poisoning
- 38.** Smack is :
(1) Cocain (2) LSD (3) Heroin (4) Cannabis
- 39.** Which one causes psychological dependence :
(1) Morphine/Heroin (2) Alcohol
(3) Cannabis (4) LSD
- 40.** Which of the following is known as 'road poison'.
(1) Cannabis (2) Chloroform (3) Dhatura (4) LSD

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.** How forensic science/medicine helps in crime investigation ? Enumerate the ways it help in investigation, no detail required.
- 02.** Enumerate the different sections of a set up of Forensic Science Laboratory, no details required.
- 03.** What are the help that can be taken from forensic odontology ? Enumerate them.
- 04.** Now a days why in biometric identification of finger tip impression is considered as an important parameter. Give answer maximum in **10** sentences.
- 05.** Basis aims of medicolegal postmortem examination. Enumerate only main points.
- 06.** Give outline of the first aid given in a case of snake bite and also mention the precautions considered.
- 07.** The role of DNA profiling/typing in Forensic Science/medicine. Enumerate important points only.
- 08.** Major amendments in "Rapa" definition as per Criminal Law Amendment Act 2013. Enumerate important point only pertaining to age of victim/survivor and alleged accused.
- 09.** Classify characteristics for identification in general of any object/ physical evidences. Describe in five sentences each of them.
- 10.** What is malingering ?

Question No.

Page for Short Answer

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RET/16/TEST-B

639/Forensic Medicine

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 लिखें)

1. प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसका सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
3. 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 लिखें।
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 उपरिलेखन की अनुमति नहीं है।
7. 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।
9. प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा 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।
11. रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें।
13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।