



MH SET

Previous Year Paper (Forensic Science) 07 Apr, 2024

Test Prime

ALL EXAMS, ONE SUBSCRIPTION



70,000+ Mock Tests



600+ Exam Covered



Personalised Report Card



Previous Year Papers



Unlimited Re-Attempt



500% Refund

















ATTEMPT FREE MOCK NOW





Test Booklet Code & Serial No. प्रश्नपत्रिका कोड व क्रमांक

FORENSIC SCIENCE										
										Sign
1. (Signature)			(In figures				s as in Admit Card)			
(N	Name) S	eat No.					• • • • • • • • •		••••	
2. (Signature)			(In words)							
(N	Name)	MR Sh	eet No.							
APR - 39224				(То	be fille	ed by th	ne Ca	ndid	ate)	
Time Allowed : 2 Hours]			[Maximum Marks: 200							
Number of Pages in this Booklet : 20			Number of Questions in this Booklet : 100							
1. 2. 3.	Instructions for the Candidates Write your Seat No. and OMR Sheet No. in the space provided on the top of this page. This paper consists of 100 objective type questions. Each question will carry two marks. All questions of Paper II will be compulsory. At the commencement of examination, the question booklet will be given to the student. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as follows: (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal or open booklet. (ii) Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to missing pages/questions or questions repeated or not in serial order or any other discrepancy should not be accepted and correct booklet should be obtained from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given. The same may please be noted. (iii) After this verification is over, the OMR Sheet Number should be entered on this Test Booklet. Each question has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item. Example: where (C) is the correct response.	1. 2. 3.	सीव (ii) पहि तसे पृष्टे अस 5 पि घ्या वाढ (iii) बरी	नापला आ स दिलेल्ल त्रकंत 10 रनपत्रिकंत बाल्यावर ये आपण यात ग नसलेलं ल्या पृष्ठ च प्रश्नपां ज्वानित्व चून मिळा लप्रमाणे एम.आर. साठी (A), ल योग्य	सन क्रमांक या उत्तरपत्रिंग 0 बहुपर्यायं तील सर्वे प्र विद्यार्थ्यांला सदर प्रश्न उघडण्यासाटा तिकंवा सीग ।व्य नमूद प्रविक्षकाट तर प्रश्नपित्र णार नाही या सर्व पडट उत्तरपत्रिके (B), (C) 3	कंचा क्रमांक ही प्रश्न आहेत श्न सोडिविणे हि प्रश्नपत्रिका हि प्रश्नपत्रिका हि प्रश्नपत्रिका हि प्रश्नपत्रिके हि प्रश्नपत्रिके हि प्रश्नपत्रिके हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्नाचि हि प्रश्निव हि प्रश्नाचि हि प्रश्निव हि प्रस्मि	ल वरच्या त्याखार्ल त. प्रत्येक अनिवार दिली ज हून खाल वर लावत प्रश्नपत्रि प्रश्नपत्रि प्रश्नपत्रि प्रस्ति प्रश्नप हिससी प्र मिळणार हिससी प्र हिससी हिससी	ो लिहावा प्रश्नास मैं आहे. गाईल. सु गील बाब लेले सील मंजा स्वीग मंजा सुव मंजा सुव स्व स्व स्व स्व स्व स्व स्व स्व स्व स्	ा. दोन गुण रुवातीच्या ती अवश्य ती अवश्य ता उघडावे. कारू नये. कूण पृष्ठे न पहांवी. तोचा क्रम रुवातीच्या ता मागवून तेच वेळही विते. पत्रिकेवर	
5. 6. 7. 8.	Your responses to the items are to be indicated in the OMR Sheet given inside the Booklet only. If you mark at any place other than in the circle in the OMR Sheet, it will not be evaluated. Read instructions given inside carefully. Rough Work is to be done at the end of this booklet. If you write your Name, Seat Number, Phone Number or put any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, you will render yourself liable to disqualification. You have to return original OMR Sheet to the invigilator at the	5. 6. 7. 8.	या प्रश्नपत्रिवं इतर ठिकाणी व अतत दिलेल्या प्रश्नपत्रिकेच्य जर आपण अ नाव, आसन केलेली आढत अवलंब केल्य	कितील प्रश्न लहिलेली सूचना व ग शेवटी गो.एम.आ क्रमांक, प् ठून आल्य प्रास विद्या	B) गांची उत्तरे अ उत्तरे तपासल गाळजीपूर्वक जोडलेल्या र. वर नमूद कोन नंबर वि ।स अथवा अ	भो.एम.आर. नी जाणार नाही ज वाचाव्यात. को-या पानाव द केलेल्या ठि कंवा ओळख असभ्य भाषेच क्षेस अपात्र ठ	त. रच कच्चे काणार्व्या पटेल अ ा वापर वि इरविण्यात	ों काम क तिरिक्त इत शी कोण जंवा इतर 1 येईला	ज्सवे तर कोठेही तीही खूण गैरमार्गांचा	
10. 11. 12.	end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry the Test Booklet and duplicate copy of OMR Sheet on conclusion of examination. Use only Blue/Black Ball point pen. Use of any calculator or log table, etc., is prohibited. There is no negative marking for incorrect answers.	9. 10. 11. 12.	परीक्षा संपल्य परत करणे अ द्वितीय प्रत अ फक्त निळ्या कॅलक्युलेटर चुकीच्या उत्त	ानंतर विद्य वश्यक अ ापल्याबरे किंवा का किंवा लॉ	ग्रार्थ्याने मूळ गहे. तथापि, विष्यास ळ्या बॉल पें ग टेबल वाप	ओ.एम.आर. प्रश्नपत्रिका व विद्यार्थ्यांना गेनचाच वापर परण्यास परव	. उत्तरपत्रि व ओ.एम. परवानगी करावा. ानगी नाह	ाका पर्यवे आर. उत्त आहे.		











Forensic Science Paper II

Time Allowed: 120 Minutes] [Maximum Marks: 200

Note: This paper contains **Hundred** (100) multiple choice questions. Each question carrying **Two** (2) marks. Attempt *All* questions.

- The distance travelled by the
 Firearm discharge in chronological
 order is:
 - (A) Charring, Blackening, Burning and Tattooing
 - (B) Burning, Charring, Blackening and Tattooing
 - (C) Blackening, Charring, Tattooing and Burning
 - (D) Tattooing, Charring, Blackening and Burning

2. Match the following:

List I

- (a) Pneumograph
- (b) Sphygmograph
- (c) Plethysmograph
- (d) Galvanograph

List II

- (i) Blood pressure
- (ii) Blood pulse volume
- (iii) Sweat conductivity
- (iv) Respiration changes

Codes:

- (a) (b) (c) (d)
- (A) (iv) (i) (ii) (iii)
- (B) (iv) (i) (iii) (ii)
- (C) (i) (iii) (ii) (iv)
- (D) (ii) (iv) (iii) (i)



- 3. In Forensic Gait Analysis, which of the following are the temporal parameters?
 - (i) Step or stride width
 - (ii) Foot angle
 - (iii) Step time
 - (iv) Stance duration
 - (v) Swing/stance ratio
 - (vi) Gait line

Codes:

- (A) (i), (ii), (vi)
- (B) (i), (v), (vi)
- (C) (iii), (iv), (v)
- (D) (ii), (iv), (vi)
- 4. What is the full form of "SICAR"?
 - (A) Shoeprint Imaging Capture and Recovery
 - (B) Shoeprint Imaging Capture and Retrieval
 - (C) Shoeprint Image Capture and Retrieval
 - (D) Shoeprint Image Capture and Recovery
- 5. Venous blood collected as a reference blood sample should be collected in:
 - (A) Pink-topped vacutainer EDTA tubes
 - (B) Purple-topped vacutainer EDTA tubes
 - (C) Green-topped vacutainer EDTA tubes
 - (D) Yellow-topped vacutainer EDTA tubes

- 6. Why is a scale included in forensic photographs?
 - (A) To add visual interest to the photo
 - (B) To indicate the time the photo was taken
 - (C) To enhance the composition of the image
 - (D) To show the size of objects in the photo
- 7. Which of the following are criminal courts?
 - (a) Executive magistrate court
 - (b) Judicial magistrate of first class court
 - (c) Metropolitan magistrate court
 - (d) Munsif court

- (A) (a), (b) and (c) only
- (B) (a), (c) and (d) only
- (C) (a), (b) and (d) only
- (D) (b), (c) and (d) only



8. Match the following:

List I

- (a) Article 14 (Constitution of India)
- (b) Article 15 (Constitution of India)
- (c) Article 16 (Constitution of India)
- (d) Article 17 (Constitution of India)

List II

- (i) Prohibition of discrimination on grounds of religion, race, caste, sex
- (ii) Equality before law
- (iii) Abolition of untouchability
- (iv) Equality of opportunity in matters of public employment

Codes:

- (a) (b) (c) (d)
- (A) (i) (ii) (iii) (iv)
- (B) (ii) (iv) (iii) (i)
- (C) (iv) (iii) (ii) (i)
- (D) (ii) (i) (iv) (iii)
- 9. The first forensic science laboratory in Maharashtra was established in Mumbai in the year :
 - (A) 1952
 - (B) 1958
 - (C) 1962
 - (D) 1968

10. The footprint section under CID, Government of Bengal was first established in:

- (A) 1920
- (B) 1915
- (C) 1910
- (D) 1905

11. Which of the following are size exclusion methods?

- (a) Gel adsorption
- (b) Gel filtration
- (c) Gel diffusion
- (d) Gel permeation

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (a) and (c) only
- (C) (c) and (d) only
- (D) (b) and (d) only

12. Which of the following chromatographic mobile phase has the highest refractive index ?

- (A) Water
- (B) Ethanol
- (C) Chloroform
- (D) Toluene



- 13. Which of the following gases are used as carrier gas in GLC ?
 - (a) Hydrogen
 - (b) Acetylene
 - (c) Nitrogen
 - (d) Nitrous oxide

Choose the correct answer from the options given below:

- (A) (a) and (c) only
- (B) (a) and (b) only
- (C) (c) and (d) only
- (D) (b) and (d) only
- 14. Performance of mass analyser is measured in terms of its:
 - (A) Separation coefficient
 - (B) Retardation factor
 - (C) Retention factor
 - (D) Resolving power
- 15. Silicon drifted detector is which of the following types of X-ray transducer?
 - (A) Ionization chambers
 - (B) Geiger tube
 - (C) Semiconductor transducer
 - (D) Scintillation tube

- 16. Which of the following elements have greater sensitivity in fast-neutron activation analysis than that of the thermal neutron?
 - (a) Cl
 - (b) Ni
 - (c) O
 - (*d*) Si

- (A) (a) and (b) only
- (B) (b) and (d) only
- (C) (c) and (d) only
- (D) (a) and (c) only
- 17. ICP is used to analyse samples in which of the following states?
 - (A) Solids
 - (B) Liquids
 - (C) Gases
 - (D) Solids and liquids both
- 18. Mercury Cadmium Telluride (MCT) detectors are used in :
 - (A) FTIR spectrometry
 - (B) AAS
 - (C) GC-MS
 - (D) LC-MS



- 19. Bertrand lens is commonly a part of the following microscope :
 - (a) Stereomicroscope
 - (b) Comparison microscope
 - (c) Polarising microscope
 - (d) Fluorescence microscope

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (b) and (d) only
- (C) (a), (c) and (d) only
- (D) (b), (c) and (d) only
- 20. The commonly used light source in a fluorescence microscope is:
 - (a) Xenon arc lamp
 - (b) Mercury arc lamp
 - (c) Ruby laser
 - (d) Diode laser

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (d) and (a) only

- 21. Which of the following is used to preserve DNA at room temperature?
 - (A) FTA Card
 - (B) Chelex
 - (C) DNAIQ
 - (D) Whatman's paper
- 22. In an individual lacking spermatozoa in the seminal stains, which test is most suitable for its identification among the following?
 - (A) Seminal acid phosphatase test
 - (B) Choline test
 - (C) Semen specific test
 - (D) Barberio's test
- 23. Among the following which is more suitable to determine the species origin of blood stains?
 - (A) Precipitin tube technique
 - (B) Crose-over electrophoresis
 - (C) Latex agglutinins
 - (D) Anti-globulin consumption test
- 24. The scientific name of Chiru is:
 - (A) Antilope cervicapra
 - (B) Pantholops hodgsonii
 - (C) Capra aegagrus
 - (D) Vulpes bengalensis



- 25. Which part of the spermatozoa of human-being has the DNA?
 - (A) Acrosome
 - (B) Midpiece
 - (C) Tail
 - (D) End part of tail
- 26. Brentamine Fast Blue-B is used to test:
 - (A) Seminal stains
 - (B) Vaginal stains
 - (C) Saliva stains
 - (D) Urine stains
- 27. Which of the following is a red cell blood group system?
 - (a) HLA
 - (*b*) ABO
 - (c) Kell
 - (d) Duffy

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (b) and (d) only
- (C) (b), (c) and (d) only
- (D) (a), (c) and (d) only

- 28. The luminal reagent test with blood gives luminescence of which colour?
 - (A) Bright blue to yellow green
 - (B) Bright green to white
 - (C) Bright orange to black
 - (D) Bright violet to greyish
- 29. Which of the following is part of an amplification process ?
 - (a) Addition of primers to ends of DNA strands
 - (b) Denaturation
 - (c) Addition of individual nucleotide
 - (d) Southern blotting

- (A) (a), (b) and (c) only
- (B) (a), (b) and (d) only
- (C) (a), (c) and (d) only
- (D) (b), (c) and (d) only
- 30. In older times, guaiacum test was used for the preliminary identification of:
 - (A) Saliva
 - (B) Blood
 - (C) Semen
 - (D) Urine





- 31. Van Urk test is used as a preliminary test for which of the following drugs?
 - (A) Opium
 - (B) MDMA
 - (C) GHB
 - (D) LSD
- 32. Pure anthracene exhibit the fluore-scence of which colour?
 - (A) Green
 - (B) Blue
 - (C) Yellow
 - (D) Orange
- 33. Chalcosis lentis is observed in the chronic poisoning of :
 - (A) Copper
 - (B) Arsenic
 - (C) Cadmium
 - (D) Barium
- 34. Congress grass is:
 - (A) Dermal irritant
 - (B) GIT irritant
 - (C) General irritant
 - (D) Sedatives

- 35. Which of the following is an example of systemic poison?
 - (A) DDT
 - (B) Hg
 - (C) Carbolic acid
 - (D) As
- 36. Which of the following is stupefying poison?
 - (A) Copper sulphate
 - (B) Oleander
 - (C) Dhatura
 - (D) Croton
- 37. Who is known as the father of Modern Toxicology?
 - (A) Mathieu Joseph Bonaventure Orfila
 - (B) Calvin Goddard
 - (C) E. Locard
 - (D) Hans Gross
- 38. Cannabis is an example of:
 - (A) Hallucinogens
 - (B) Sedatives
 - (C) Hypnotics
 - (D) Stimulants





- 39. All the three countries constitute the golden triangle :
 - (a) Thailand
 - (b) Myanmar
 - (c) Laos
 - (d) China

- (A) (a), (b) and (c) only
- (B) (a), (c) and (d) only
- (C) (b), (c) and (d) only
- (D) (a), (b) and (d) only
- 40. Scott's test is used for the detection of:
 - (A) Morphine
 - (B) Cocaine
 - (C) Codeine
 - (D) Heroine
- 41. In which of the following weapons, iron pyrite was used as ignitor?
 - (A) Percussion lock gun
 - (B) Flint lock gun
 - (C) Wheel lock gun
 - (D) Match lock gun

- 42. Which of the following tests is used to detect the presence of Nitrates in Gunshot Residue?
 - (A) Harrison-Gilroy test
 - (B) Scott test
 - (C) Dithiooxamide test
 - (D) Modified Griess test
- 43. A projectile designed to disintegrate upon impact with a hard surface in order to minimize ricochet is referred to as:
 - (A) Incendiary bullet
 - (B) Matchlock bullet
 - (C) Jacketed bullet
 - (D) Frangible bullet
- 44. What is the full form of BDAS in relation to ballistics?
 - (A) Ballistic Data Acquiring System
 - (B) Ballistic Data Analysing System
 - (C) Ballistic Data Acquisition System
 - (D) Ballistic Data Advancement System



- 45. Which of the following methods will most effectively remove all the recoverable traces of the original serial number on an engine?
 - (A) Over-stamping
 - (B) Filing
 - (C) Welding
 - (D) Peening
- 46. Magic bullet phenomenon is said to be related to which of the following?
 - (A) James Garfield assassination
 - (B) Lee Harvey Oswald assassination
 - (C) William McKinley assassination
 - (D) John F. Kennedy assassination
- 47. A bullet fired from a gun is not released, it is ejected out with the subsequent shot. It is known as:
 - (A) Dumdum bullet
 - (B) Richochet bullet
 - (C) Tandem bullet
 - (D) Rocketing bullet

- 48. Which of the following is the result of flame and hot gases and not by the hot projectiles as is commonly believed?
 - (A) Blackening
 - (B) Tattooing
 - (C) Scorching
 - (D) Pink coloration
- 49. The formula for ballistic coefficient is:
 - (A) $C = \frac{w}{id}$
 - (B) $C = \frac{w}{id^2}$
 - (C) $C = \frac{w}{i^2 \sqrt{d}}$
 - (D) $C = \frac{id^2}{w}$
- 50. In which of the following primer cap types, anvil is part of the cartridge case in the form of a small pag in the primer pocket?
 - (A) Berdan Primer
 - (B) Boxer Primer
 - (C) Battery Cup Primer
 - (D) Wheel Lock Primer



- 51. A secretive visual documentation of objects of importance to an investigation is known as:
 - (A) 3D photography
 - (B) High speed photography
 - (C) Aerial photography
 - (D) Surveillance photography
- 52. If you are shooting a photo and want to get a greater depth of field in the image, you would shoot at:
 - (A) F2.8
 - (B) F16
 - (C) F7.1
 - (D) F4
- 53. Cyclotol is the combination of:
 - (A) PETN + TNT
 - (B) RDX + TNT
 - (C) PETN + RDX
 - (D) Black powder + Nitrocellulose
- 54. The phenomenon that occurs when all the combustible fuels simultaneously ignites, engulfing the entire structure in flames is known as:
 - (A) Backdraft fire
 - (B) Pyrolysis
 - (C) Flashover
 - (D) Detonation

- 55. Which of the following are *o*-Nitration compounds?
 - (a) Nitrocellulose
 - (b) Nitroglycerine
 - (c) PETN
 - (d) TNT

- (A) (a), (b) and (c) only
- (B) (a), (c) and (d) only
- (C) (b), (c) and (d) only
- (D) (a), (b) and (d) only
- 56. Which dye is used in Kerosene?
 - (A) Dialkyl amino anthroquinone dye
 - (B) Phenyl azo 2-naphthol
 - (C) Green dye
 - (D) Methylene blue
- 57. The primary high explosives which is used in percussion cup of cartridge is:
 - (A) Lead azide
 - (B) TNT
 - (C) PETN
 - (D) RDX
- 58. What is the purpose of using tripod in Forensic Photography?
 - (A) To capture candid moments
 - (B) To create motion blur
 - (C) To experiment with different angles
 - (D) To add stability and reduce camera shake





- 59. The most commonly used explosive in booster is:
 - (A) Pentolite
 - (B) Dynamite
 - (C) ANFO
 - (D) Petrol
- 60. In a spot test, Diphenylamine develops the following colour when reacted with TATP:
 - (A) Green
 - (B) Red
 - (C) Orange
 - (D) Blue
- 61. Which of the following are examples of red-coloured inorganic household paint pigments?
 - (a) BON maroon
 - (b) Brominated anthanthrone
 - (c) Cadmium mercury
 - (d) Cadmium selenide

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (a) and (d) only
- (D) (c) and (d) only

- 62. An infected computer, which acts as a slave after attack through botnet is better known as:
 - (A) Zombie
 - (B) Serf
 - (C) Vassal
 - (D) Thrall
- 63. Unix systems maintain up to which of the following date-time stamps?
 - (A) Four
 - (B) Three
 - (C) Two
 - (D) One
- 64. Black Berry was first introduced in 1999 by which of the following companies?
 - (A) Research in Motion (RIM)
 - (B) Open Handset Alliance
 - (C) International Business Machine
 - (D) High Tech Computer Corporation



- 65. Which of the following ASTM guidelines are for examination of portland cement clinker?
 - (a) ASTM C 114-18
 - (b) ASTM C 1356-07
 - (c) ASTM C 1365-18
 - (d) ASTM C 1872-1892

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (a) and (d) only
- 66. Among the following, select which is a regenerated fibre?
 - (A) Rayon
 - (B) Sericin
 - (C) Nylon
 - (D) Second growth milk
- 67. Abnormal situations of hair growth where excessive growth of hair take place are:
 - (a) Hirsutism
 - (b) Alopecia
 - (c) Hypertrichosis
 - (d) Hypotrichosis

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (a) and (c) only
- (D) (c) and (d) only

- 68. Which of the following constituent of borosilicate glass exists in the highest percentage?
 - $(A) SiO_2$
 - $(B) B_2O_3$
 - (C) Al_2O_3
 - (D) CaO
- 69. The larger valve of frustule of a diatom is known as:
 - (A) Hypertheca
 - (B) Hypotheca
 - (C) Epitheca
 - (D) Cingalum
- 70. Pollen grains having only colpi is known as:
 - (A) Porate
 - (B) Colpate
 - (C) Colporate
 - (D) Colpitute
- 71. Solemate is the database related to:
 - (A) Shoe impression
 - (B) Handwriting
 - (C) Bullet
 - (D) Cartridge cases



- 72. On a tyre, the following marks were present: P 195/75 R 14. "14" indicates:
 - (A) Aspect ratio
 - (B) Rim diameter
 - (C) Section width
 - (D) Turning radius
- 73. Which of the following lifters is commonly chosen when a latent impression is on a irregularly shaped surface like doorknob?
 - (A) Lifting sheets
 - (B) Rubber-gelatin lifters
 - (C) Transparent tape lifters
 - (D) Hinge lifters
- 74. Volar pads are transient swellings of which of the following tissue?
 - (A) Squamous
 - (B) Mesenchyme
 - (C) Ganglion
 - (D) Autorhythmic

- 75. Among the following which constitutes the fundamental principles of fingerprints?
 - (a) Fingerprint is an individual characteristics
 - (b) No two fingers have identical ridge characteristics
 - (c) Fingerprints are permanent in nature
 - (d) Fingerprint characteristics follow Mendel's law of inheritance

Choose the correct answer from the options given below:

- (A) (a), (b) and (c)
- (B) (a), (b) and (d)
- (C) (b), (c) and (d)
- (D) (a), (c) and (d)
- 76. Local binary pattern extracts which of the following features from the face image?
 - (A) Colour
 - (B) Shape
 - (C) Texture
 - (D) Anthropometric landmarks





- 77. A low-resolution fingerprint image (say 250 dpi) can be more suitable for observing which of the following features?
 - (A) Singular points
 - (B) Ridge characteristics
 - (C) Edges of the ridges
 - (D) Sweat pores
- 78. A vocal mode in which the vocal folds vibrate at such a low frequency that the individual vibrations can be heard is better known as:
 - (A) Creaky voice
 - (B) Continuant
 - (C) Cognate
 - (D) Sibilants
- 79. English lax vowels appear in which of the following words?
 - (A) Sit
 - (B) Soot
 - (C) Sir
 - (D) Soy
- 80. Computerized speech laboratory is used for the examination of :
 - (A) Audio
 - (B) Video
 - (C) Image
 - (D) Document

- 81. Inkjet printer works on the principle of:
 - (A) Osmosis
 - (B) Newton effect
 - (C) Coulomb effect
 - (D) Piezoelectric effect
- 82. ESDA stands for:
 - (A) Electronic Static Detection
 Appliance
 - (B) Electrostatic Detection
 Apparatus
 - (C) Electric System for Detection of Alteration
 - (D) Electronic System for Detection of Alteration
- 83. Handwriting characteristics which is the combination of writing speed, skill, freedom of movement, execution rhythm and pen pressure is better known as:
 - (A) Master pattern
 - (B) Copybook form
 - (C) Line quality
 - (D) Kerning





- 84. Which of the following often involves writing on media other than paper, such as walls, locker doors or mirrors?
 - (A) Cacography
 - (B) Graffiti
 - (C) Hieroglyphics
 - (D) Arcograph
- 85. Bank notes are printed at which of the following places?
 - (a) Nashik, Maharashtra
 - (b) Guntur, Andhra Pradesh

(d) Dewas, Madhya Pradesh

- (c) Salboni, West Bengal
- Choose the correct answer from the options given below:
- (A) (a), (b) and (c) only
- (B) (a), (b) and (d) only
- (C) (a), (c) and (d) only
- (D) (b), (c) and (d) only

- 86. The other name for invisible ink is:
 - (A) Illegible ink
 - (B) Sympathetic ink
 - (C) Hidden ink
 - (D) Concealed ink
- 87. **Statement I**: Simplification of letter forms is an indication of fast writing.
 - **Statement II:** Writing speed affects the appearance of the writing.
 - (A) Both Statement-I and Statement-II are true
 - (B) Statement-I is true, but Statement-II is false
 - (C) Statement-I is false but Statement-II is true
 - (D) Both Statement-I and Statement-II are false
- 88. Which of the following can be said as interlineation?
 - (A) Writing between two paras
 - (B) Writing between two lines
 - (C) Writing between two words
 - (D) Writing between two letters



- 89. Which of the following are used as time tags?
 - (a) Rare earth metal
 - (b) Optical whitener
 - (c) Fluorescent tags
 - (d) Alcohol

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (a) only
- (D) (a), (b) and (d) only
- 90. 'India Ink' was invented in which of the following countries?
 - (A) Egypt
 - (B) Syria
 - (C) China
 - (D) India
- 91. Which of the following autopsy utilizes radiological techniques?
 - (A) Laparoscopic autopsy
 - (B) Endoscopic autopsy
 - (C) Virtopsy
 - (D) Toxopsy
- 92. Basic unit of a muscle is known as:
 - (A) Epimere
 - (B) Myomere
 - (C) Uromere
 - (D) Sarcomere

- 93. Common ways for the collection of maggots are :
 - (a) Boiling water followed by 70% alcohol
 - (b) Line in a bottle
 - (c) Boiling water followed by ether
 - (d) Boiling water followed by acetone

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (d) and (a) only
- 94. Teeth of dead body are used in Gustafson's method for the determination of:
 - (A) Race
 - (B) Age
 - (C) Stature
 - (D) Sex
- 95. The ossification centre in upper end of fibula appears at the age of :
 - (A) 16 years
 - (B) 10 years
 - (C) 4 years
 - (D) Birth





- 96. In rape case of a virgin, hymen tears are commonly found in which of the following position ?
 - (A) 2 o'clock
 - (B) 11 o'clock
 - (C) 6 o'clock
 - (D) 3 o'clock
- 97. Which of the following is a superadded tooth?
 - (A) Incisors
 - (B) Molars
 - (C) Premolars
 - (D) Canines
- 98. **Statement I**: Serrated occlusal surfaces of tooth are found in carpenters, cobblers and women who open bobby pins with their teeth.

Statement II: These people often use their teeth to hold nails and pins.

- (A) Both Statement I and Statement II are true
- (B) Statement I is true but Statement II is false
- (C) Statement I is false but Statement II is true
- (D) Both Statement I and Statement II are false

99. Match the following:

Characteristic of Abrasion

- (a) Bright red scab
- (b) Scab is dark brown color
- (c) Scab dries and falls off
- (d) Reddish brown scab

Age of Abrasion

- (*i*) 1 day
- (ii) > 7 days
- (iii) 2-3 days
- (iv) 4-7 days

Choose the correct answer from the options given below:

- (a) (b) (c) (d)
- (A) (i) (iv) (ii) (iii)
- (B) (i) (iv) (iii) (ii)
- (C) (i) (ii) (iii) (iv)
- (D) (iii) (iv) (ii) (i)
- 100. Diatoms in bone marrow are seen in death due to :
 - (A) Strangulation
 - (B) Drowning
 - (C) Electrocution
 - (D) Asphyxia





ROUGH WORK

