

Government Medical College and Hospital Sector 32, Chandigarh

Post: Demonstrator (Post-PG) Forensic Medicine

QUESTION BOOKLET

Time: 120 Minutes

Number of Question: 100

Maximum Marks: 100

Name of Candidate

Roll Number: In figure

In Words

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Signature of the Candidate: _____

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO

INSTRUCTIONS:-

1. Write your Roll Number on the Question Booklet and also on the OMR Sheet in the space provided. You will be required to give your thumb impression on the OMR sheet in the space provided.
2. This question booklet contains 100 MCQ's. Once you are permitted to open the Question Booklet, please check for any missing question / misprint etc. and in case of any discrepancy, inform the Assistant Superintendent / Invigilator within 10 minutes of the start of the test.
3. Each question has four alternative answer (A, B, C, D) out of which only one is correct. For each question, **darken only one bubble (A or B or C or D)**, whichever you think is the correct answer, on the OMR Answer sheet **with Black or Blue Ball Pen only**. Do not use any other Pen / Gel pen / Pencil etc. **Do not Tick \sqrt or \times on the OMR Sheet**. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the Questions given in the Question Booklet.
4. Each MCQ is of One (01) mark. There is no negative marking.
5. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the OMR Answer sheet.
6. The OMR Answer sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given, it may make evaluation by the computer difficult. Any resultant loss to the candidates on the above account, i.e. not following instructions completely and properly, shall be the responsibility of the candidates only.
7. After the test, handover the Question Booklet and OMR sheet to the Invigilator on duty.
8. A Candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper or the any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre superintendent/Observer whose decision shall be final.
9. Telecommunication equipment such as pager, cellular phone, wireless, scanner, smart watch/ watch etc. is not permitted inside the examination hall. Use of calculators is not allowed.
10. Candidate should ensure accuracy of their personal details on the OMR Sheet i.e. Name and Roll No. as well as thumb impression. The personal details are to be filled in by the candidates with his/her own hand writing.

1. Boiled lobster syndrome is seen in poisoning of _____ Acid
 - A. Boric
 - B. Sulphuric
 - C. Nitric
 - D. Carbolic
2. Ashley rule is used to determine
 - A. Age
 - B. Height
 - C. Gender
 - D. Ethnicity
3. Which is the following **does not** come under S. 320 IPC?
 - A. Fracture or dislocation of a bone or tooth
 - B. Destruction or permanent impairing of power of any member or joint
 - C. Permanent privation of any member or joint
 - D. Disfigurement of head or face
4. An example of *Date Rape* drug is
 - A. Atropine
 - B. Phenylephrine
 - C. Nitrazepam
 - D. Phenobarbitone
5. Disciplinary control on medical professionals is maintained by
 - A. National Medical Council
 - B. State Medical Council
 - C. Ministry of Health & Family Affairs
 - D. The Chief Medical Officer [CMO] of the district
6. Age at which a person becomes responsible for his criminal acts is _____ years
 - A. 5
 - B. 7
 - C. 12
 - D. 18
7. Bridging veins are situated in _____ space
 - A. Extra dural
 - B. Sub dural
 - C. Sub arachnoid
 - D. Sub-pial
8. Suspended animation may found in all, **EXCEPT**
 - A. Electrocution
 - B. Hanging
 - C. Drowning
 - D. Trance
9. Puppe's Rule relates to
 - A. Age of fetus
 - B. Sequence of fracture lines
 - C. Estimation of stature
 - D. Exchange of material during physical contact
10. Le facie'ssympathique is seen in
 - A. Hanging
 - B. Strangulation
 - C. Throttling
 - D. It is a sign of violent mechanical asphyxia
11. The most consistent finding in battered baby syndrome is
 - A. Presence of multiple injuries sustained in a single episode
 - B. Age of the child above 7 years
 - C. Nobbing fractures
 - D. Vague history but consistent with the injuries sustained
12. Which of the following **does not** cross the suture line
 - A. Subdural hematoma
 - B. Cephalhematoma
 - C. Caput succedaneum
 - D. Extradural hematoma
13. Third labial scale touches the eye and nasal shield in
 - A. Cobra
 - B. Viper
 - C. Krait
 - D. Sea snake
14. The founder of modern toxicology is
 - A. Paulus Zacchias
 - B. Mathew JB Orfila
 - C. Samuel Rowbotham
 - D. Thomas Dwight

15. 'Speedball' is a combination of Heroin and _____
 A. LSD
 B. Pethidine
 C. Methaqualone
 D. Cocaine
16. Acrodynia is seen in _____ poisoning
 A. Phosphorus
 B. Lead
 C. Mercury
 D. Thallium
17. The fatal dose of Ricinus Communis is _____ seeds
 A. 1-5
 B. 5-10
 C. 11-15
 D. 15-20
18. Reye's syndrome is associated with _____ acid
 A. Acetyl salicylic
 B. Aryl salicylic
 C. Prussic
 D. Heterocyclic acetic
19. Glass jaw is seen in chronic poisoning with
 A. Lead
 B. Iron
 C. Mercury
 D. Phosphorus
20. A single tablet (3 gms) of Aluminium Phosphide releases _____ grams of phosphine gas
 A. 0.5
 B. 1
 C. 1.5
 D. 2
21. Confabulations are seen in cases of
 A. Alcohol withdrawal syndrome
 B. Korsakoff's psychosis
 C. Wernicke's encephalopathy
 D. Marchifava syndrome
22. The length of human spermatozoa is _____ microns
 A. 45-50
 B. 50-55
 C. 55-60
 D. 60-65
23. Which of the following statements about cadaveric spasm is false
 A. Restricted to a single group of muscles
 B. Instantaneous in onset
 C. Excitement or fear are the common predisposing factors
 D. Muscles respond to electrical stimulus
24. Virchow's method of dissection is :
 A. In-situ Organ dissection
 B. Block dissection
 C. En masse dissection
 D. Individual organ removal
25. Following are true for abrasion ring formed at the entry wound of firearm ammunition injury:
 I. Present in injuries caused by both rifled and smooth bore weapon ammunition
 II. Also known as abrasion collar and contusion collar
 III. Caused due to stretching of skin and rotational movement of projectile
 IV. Reddish at first and then turns reddish or dark brown
Choose the correct option
 A. I & II
 B. II & III
 C. III & IV
 D. All of the above
26. Streaming of nuclei on histopathology is seen in death due to:
 A. Strangulation
 B. Hanging
 C. Electrocution
 D. Burns

27. Which of the following tests are used in relation to examination of alleged accused of rape:
 I. Papanicolaou II. Phenolphthalein
 III. Lugol's Iodine IV. Uhlenhuth
Choose the correct option
- A. I & II
 B. I & III
 C. I and IV
 D. I, III & IV
28. Which of the following statement is incorrect for a person habitual of sodomy ?
 A. Anal orifice dilated, inelastic and overstretched
 B. Anal margins smooth and thickened
 C. Anal muscle tone is lost
 D. Lateral buttock traction test is negative
29. Which of the following statement is **not true** for Auto-brewery Syndrome:
 A. It is formation of alcohol in the body from lipids and proteins
 B. It is seen in persons with defective allele of ALDH2
 C. Intestinal Candidiasis infection is usually seen in such persons
 D. In-vivo level of alcohol formation may go up to 80 mg%
30. Fish tailing in the stab wound is seen when following weapon is used:
 A. Single edged knife
 B. Double edged knife
 C. Ice pick
 D. Screw Driver
31. Which of the following is not a constituent of the primer used in firearm cartridges
 A. Barium nitrate
 B. Potassium nitrate
 C. Lead styphnate
 D. Antimony sulphide
32. Following are the signs of intrauterine death of foetus, EXCEPT _____ sign
 A. Deuel's halo
 B. Hegar's
 C. Robert's
 D. Spalding's
33. Foul smell from the cadaver is mainly due to the production of _____ by the bacteria acting on proteins & amino acids.
 A. Mercaptans
 B. Ptomaines
 C. Ornithine
 D. All the above
34. Todd's method for estimation of age from pubic symphysis involves observation of the following, EXCEPT:
 A. Billowing
 B. Lipping
 C. Ridging
 D. Ossific nodules
35. Urine is considered as 'Toxicologist's Gold' because of which of its following features?
 I. Drugs present in higher concentration.
 II. Large volume & easy to collect.
 III. Non-invasive.
 IV. No pain or discomfort while collection
Choose the correct option below
- A. I, II, III & IV
 B. I, II & III
 C. I & II
 D. I
36. Which of the following combination of colour of postmortem staining and causative factor is **INCORRECT**?
 A. Black - Opioids
 B. Bright Pink - Hydrocyanic acid
 C. Dark brown - Phosphorus
 D. Bluish green - Nitrobenzene
37. Find the **INCORRECT** match of the smell with the poison causing it:
 A. Fruity - Nitrobenzene
 B. Acrid - Chloral hydrate
 C. Garlic - Arsenic
 D. Rotten fish - Zinc phosphide
38. Declaration of Helsinki was regarding the following:
 A. Oath taken by the physician
 B. Human experimentation
 C. Torture prevention
 D. DNA fingerprinting

39. Which of the following statements is incorrect in relation to 'Le facies sympathiques'?
- Occurs due to knot pressing on cervical sympathetics
 - Eye on same side of knot is open and pupils dilated
 - Seen both in hanging and strangulation
 - It is a sign of antemortem hanging
40. Erotomania is an example of;
- Delusion
 - Hallucination
 - Impulse
 - Obsession
41. Which of the following poison does not prolong putrefaction of body?
- Arsenic
 - Antimony
 - Dhatura
 - Calotropis
42. "Six penny bruises" are caused by:
- Poking of fingers
 - Muzzle end of barrel
 - Sharp end of arrow
 - Burning cigarette buds
43. All are the features of starvation except:
- Atrophy of all coats of intestines
 - Small, Contracted empty stomach
 - Shriveled, empty gall bladder
 - Hard, Scybalous fecal matter in large intestines
44. Ewing's Postulates includes all the following except:
- There need not be evidence of previous integrity of the injured part
 - Undeniable and adequate trauma must be proved
 - The tumor must develop within a reasonable period of trauma
 - Tumor must develop in the exact locality
45. A 55-year-old man presents with a 10-day history of confusion. His friend mentioned that he drinks 375 ml of rum per day. Which of the following strongly suggest diagnosis of Korsakoff's psychosis
- Delusional beliefs
 - Retrograde amnesia
 - Auditory Hallucinations
 - Confabulations of events
46. Alkaline rigor is a feature of death due to
- Burns
 - Starvation
 - Mechanical asphyxia
 - Strong physical work preceding death
47. Signs and symptoms of 'heat stroke' are all, EXCEPT:
- Dry hot skin
 - Deep, rapid breath
 - Normal temperature
 - Rapid, thread pulse
48. Surface area involved if head and face are burnt in case of an infant is
- 13%
 - 15%
 - 17%
 - 19%
49. Absolute proof of respiratory effort during fire is soot in
- Trachea
 - Primary bronchi
 - Secondary bronchi
 - Bronchioles
50. The most common site for the formation of Curling's Ulcer is:
- Esophagus
 - Stomach
 - Duodenum
 - Ileum
51. "Marjolin's ulcer" is a
- Malignant ulcer on a burn scar
 - Malignant ulcer on an infected foot
 - Ulcer in the duodenum in a patient of burns
 - Trophic ulcer

52. Sub-conjunctival hemorrhage does not show the classical color change because:
- Continuous O₂ supply
 - Continuous CO₂ supply
 - Blood supply is less
 - Color change is not appreciable
53. All of the following are true about incised wound, EXCEPT
- Has clean cut margins
 - Bleeding generally less than in laceration
 - Tailing of wound usually present
 - Length of wound does not correspond to the length of blade
54. The most common site for contre-coup brain injury is _____ lobe
- Frontal
 - Parietal
 - Temporal
 - Occipital
55. Length of a stab wound corresponds to:
- Length of blade
 - Width of blade
 - Thickness of blade
 - Length of the weapon
56. Which of the following regarding rifling is INCORRECT:
- Gives spin to the bullet
 - Enhances explosive power of the bullet
 - Enhances penetration power of the bullet
 - Enhances accuracy
57. Most common type of the intra-cranial hemorrhage is:
- Extra-dural
 - Sub-dural
 - Sub-arachnoid
 - Intra-cerebral
58. Beveling of skull is seen at
- Entry of rifled firearm ammunition
 - Exit of rifled firearm ammunition
 - Entry of smooth bore firearm ammunition
 - Depressed fracture of the skull
59. 'Self inflicted' incised wounds are characterized by the following, EXCEPT
- Usually superficial
 - On accessible parts of the body
 - Directed away from the umbilicus
 - No corresponding tears on the clothes
60. Sparrow marks are seen in
- Gunshot injuries
 - Stab injury of face
 - Vitriolage
 - Windshield glass injury
61. Kennedy phenomenon is seen in-
- Road traffic accident
 - Gunshot injury
 - Burns
 - Contusion
62. Marshall's triad is seen in _____ injury
- Explosion
 - Gunshot
 - Head
 - Chop
63. Falanga is -
- Beating on soles with blunt object
 - Beating on soles with palms
 - Beating on the abdomen
 - Suspension by wrists
64. Which of the following mental disorders was once referred to as the "moral insanity of Pritchard"
- Automatism
 - Mania
 - Mental challenge
 - Psychopathy
65. The solution preferred as a chemical antidote for gastric lavage in a case of acute cyanide poisoning is
- Calcium hydroxide.
 - Potassium permanganate.
 - Calcium gluconate.
 - Sodium thiosulphate

66. Which of the following organic acids can be absorbed through the intact skin to produce systemic effects?
- Acetic
 - Carbolic
 - Formic
 - Oxalic
67. For the diagnosis of Lunacy, a person can be kept under observation at a stretch for:
- 24 hours
 - 7 days
 - 10 days
 - 20 days
68. Marsh's test is used for the detection of:
- Arsenic
 - Lead
 - Strychnine
 - Mercury
69. Pyromania is type of :
- Delusion
 - Impulse
 - Obsession
 - Phobia
70. Bulk of meal usually leaves the stomach within ____ of eating
- 30 minutes
 - 2 hours
 - 4 hours
 - 6 hours
71. The optimum depth of penetration for effecting 'tattoo mark':
- Into superficial layers of epidermis
 - Up to superficial layers of dermis
 - Into deeper layers of dermis
 - Up to deeper layers of dermis
72. Shovel type of incisor teeth are seen in:
- Negroes
 - Aryan
 - Europeans
 - Chinese
73. In skull, Basi-Occiput fuses with Basi-sphenoid at about ____ years
- 16-18
 - 20-22
 - 24-26
 - 28-30
74. What would be the "race" of the individual if skull bone found is having following features:
Rounded nasal opening
Horseshoe shaped palate
Round orbit and
Cephalic index - >80.
- Negro
 - Mongol
 - European
 - Aryans
75. Multiplying factor for estimating stature from femur is (male):
- 3.2 - 3.5
 - 3.6 - 3.8
 - 3.8 - 4.0
 - 4.2 - 4.4
76. In Gustafson method of age determination from teeth, the most reliable criteria is:
- Cementum apposition
 - Root resorption
 - Secondary dentine deposition
 - Root transparency
77. Maggots in and around a dead body usually appears in ____ days
- 0-1
 - 1-2
 - 2-4
 - 5-6
78. Rate of cooling of dead bodies in tropical climate is approximately ____ F / hr:
- 0.50
 - 0.75
 - 1.00
 - 1.25

79. Out of the following, which provides a longer window of opportunity for detecting use of cocaine:
- Saliva
 - Blood
 - Urine
 - All of the above
80. In maceration, which of the following statement is not true:
- A sterile condition
 - Foetus is flaccid
 - Emits sweetish but disagreeable smell
 - Skin assumes greenish colour
81. All are the components of 'gun powder' except:
- Charcoal
 - Lead peroxide
 - Potassium nitrate
 - Sulphur
82. Pain is more in which degree of Wilson's classification of burns:
- 1st
 - 2nd
 - 3rd
 - 4th
83. To cause or attempt to cause a woman "quick with the child" to miscarry is a grave offence as related to following sections of IPC:
- 312 and 511
 - 312 and 509
 - 314 and 511
 - 314 and 509
84. A person may become sterile with occupational exposure to:
- Mercury
 - Lead
 - Aluminium
 - Asbestos
85. Wall scrapings can be used as a first aid remedy in the poisoning by _____ acid
- Hydrochloric
 - Oxalic
 - Carbolic
 - Salicylic
86. Polyvalent anti-snake venom is prepared against the venom of the following except:
- Cobra
 - Banded Krait
 - Russel viper
 - Saw scaled viper
87. Urinary level of alcohol in ratio to blood alcohol level is:
- 1 : 1.3
 - 1 : 1.6
 - 1.3 : 1
 - 1.6 : 1
88. Weight of normal uterus is _____ gms:
- 30-40
 - 45-60
 - 60-70
 - 80-100
89. Post-mortem examination in a new born baby is done by opening first:
- The skull
 - The chest cavity
 - The abdominal cavity
 - Any of the above according to convenience
90. Legally "Abortion" is termination of pregnancy before _____ weeks of gestation:
- 6
 - 16
 - 26
 - Any time
91. Eonism is:
- Desire to identify with the opposite sex
 - Intercourse with a lower animal
 - Female homo-sexualism
 - Obtaining sexual gratification by seeing naked bodies

92. Which of the following statements about consent is 'not true' :

- A. Consent can only be valid if it is given by a person who is sane and has attained maturity, i.e. age of 18 yrs
- B. For sterilization of a married person, consent of both spouse, i.e. husband and wife is required
- C. For artificial insemination, consent of the patient alone is required
- D. In emergency situation, if no near relative is available, doctors can perform procedure/surgery necessary to save life even without consent, provided that the procedure intended is certified to be essential to save life of the patient, by two doctors

93. For examining a fourteen-year-old victim of rape, the doctor is required to do the following EXCEPT:

- A. To take consent from the victim
- B. Conducting examination in presence of female attendant
- C. Necessary preliminary treatment
- D. Collection of necessary samples

94. Maximum level of HCG in normal pregnancy is seen at about _____ days after last menstrual period:

- A. 30
- B. 60
- C. 90
- D. 120

95. In a male suffering from aspermia, the most suitable test for seminal stain is _____ test

- A. Florence
- B. Barberio
- C. Takayama
- D. Acid phosphatase

96. Presence of 'carunculae myrtiformes' indicate:

- A. Virginity
- B. Defloration
- C. Previous surgical procedure
- D. Previous child birth

97. Hydrargyris is due to chronic poisoning by:

- A. Arsenic
- B. Mercury
- C. Lead
- D. Thallium

98. Saturnism is due to chronic poisoning by:

- A. Arsenic
- B. Mercury
- C. Lead
- D. Thallium

99. Fregoli syndrome is a type of:

- A. Delusion
- B. Illusion
- C. Hallucination
- D. Delirium

100. Exhibitionism is punishable under Section _____ IPC:

- A. 194
- B. 294
- C. 394
- D. 494

SUBJECT FORENSIC MEDICINE

Q No	Key	Q No	Key	Q No	Key
1	A	21	B	41	D
2	C	22	C	42	A
3	D	23	D	43	C
4	C	24	D	44	A
5	B	25	B	45	B
6	C	26	C	46	B
7	B	27	B	47	C
8	B	28	D	48	D
9	B	29	A	49	D
10	A	30	A	50	C
11	C	31	B	51	A
12	B	32	B	52	A
13	A	33	B	53	B
14	B	34	B	54	A
15	D	35	A	55	B
16	C	36	D	56	B
17	B	37	A	57	C
18	A	38	B	58	B
19	D	39	C	59	C
20	B	40	A	60	D
Q No	Key	Q No	Key		
61	B	81	B		
62	A	82	B		
63	A	83	A		
64	D	84	B		
65	D	85	C		
66	B	86	B		
67	C	87	C		
68	A	88	B		
69	B	89	C		
70	B	90	D		
71	B	91	A		
72	D	92	C		
73	B	93	B		
74	B	94	B		
75	C	95	D		
76	D	96	D		
77	C	97	B		
78	B	98	C		
79	B	99	A		
80	D	100	B		