

FORENSIC AND STATE MEDICINE

January 1996

Full Marks 90

Candidates are required to give their answers in their own words as far as practicable.

1. An adolescent unmarried girl alleged to have been gangraped & physically assaulted, then left on a road-side ditch, wherefrom on being informed, the police took her to the Emergency Department of a State Gen. Hospital for examination, reporting & treatment. How the M.O. on duty will examine the case, note down the findings in sufficient details to connect the crime with the criminal, the nature and time of assault?

Or A bomb blasted devastated lacerated soft tissue & skeletal remains of some 3 to 5 occupants of the affected car involved in the bomb blast were recovered along some badly injured persons from nearby the affected car.

What medicolegal inference can be drawn from detailed examination of the dead bodies, mutilated soft tissue and skeletal remains of the victims as to their identity, cause, nature of death, time since death? What further investigations you will suggest in such type of cases?

2. What are the types and nature of sentences that can be awarded by Courts of Law as for punishment? Describe them in full details, stating the name of the judicial officer who can award such punishment and for what offence in each case.

Describe the procedure of trial of a criminal case in a Session's Court in details.

- Or**
- (a) Describe the mode of action of :
 - (i) Lead poisoning
 - (ii) Dhatura poisoning
 - (iii) Copisoning
 - (iv) HCN poisoning.
 - (b) Describe the management of :
 - (i) Acute corrosive acid poisoning
 - (ii) Acute Mercurio Chloride poisoning.
 - (c) Describe the PM findings of :
 - (i) Acute Oxalic Acid poisoning
 - (ii) Acute Arsanious oxide poisoning
 - (iii) Acute yellow Phosphorus poisoning.

3. Write short notes on (any five) :
 (a) Medicolegal imp. of Teeth (b) Suspended Animation
 (c) Traumatic Asphyxia (d) Turrogate Mother (e) Postmortem Caloricity (f) Impulse (g) Vicarious liability.
- Or** Differentiate between :
 (i) *Rigor mortis* and Heat Stiffening (ii) True bruise and False bruise (iii) True virgin and False virgin (iv) Male pelvis and Female pelvis (v) Acute Strychnine poisoning and tetanus (vi) Putrefaction and Maceration (vii) Civil malpraxis and Criminal Malpraxis.
4. Write correct or Incorrect :
 (a) After death, dead body lengthens more in females than in males.
 (b) Pupils are dilated in Oxalic acid poisoning.
 (c) Erythism is a symptom complex in acute lead poisoning.
 (d) Chromadochryorrhoea is a sign of acute opium poisoning.
 (e) Euthanesia has been legalised in India.
 (f) Dermal nitrate test is the surest test of distant-firing from a gun.
 (g) Cafe coronary and Coronary thrombosis are synonymous.
 (h) Dangerous Lunatic and Wandering Lunatic are same.
 (i) Mother of newly born infant within 15 days of its birth is known as Infanticide.
 (j) Paultaff's haemorrhage is same as petechial haemorrhagic spots.

January 1997

Full Marks 90

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. What do you understand by "Consent" ? What are the types of Consent ? When a medical man, while examining a subject must take the express consent of the examinee ? What are the different ages below which a person cannot give valid consent for some specific acts? Describe the ages of criminal responsibility from childhood upto 21 yrs, stating the nature of punishment that can be awarded age-wise. 2+2+4+8+9
- Or** A bundle of bones 426 in number were recovered from a mass grave. What medicolegal inferences/data etc. can be elicited from medicolegal examination of such bones, some of which

- bore injury marks—recent and old, some showing fractures—recent and old, some showing evidence of burns—fully or partially? Apart from general information about age, sex, height of different subjects etc. idea about age of injuries, age of burial and other relevant data and recommended means of investigation may be mentioned. 25
2. What are the violent asphyxial deaths ? Describe the pathophysiology of causation of each one of them. Describe the suggestive rather positive internal findings in the neck and elsewhere in the body in details in respect of—
 (a) Strangulation by throttling. (b) Strangulation by ligature. (c) Suffocation by smothering.
- How can the court of Law assess the time elapsed between act of assault and loss of consciousness or between the act of assault and time of death ? 4+6+9+6
- Or** What are the important cardiac poisons that can be used both for homicidal and suicidal purposes easily? Please state the advantages of use of these, separately for each one of them—justifying your reasons in each of the cases. 2+2+2+2+1
- How will you diagnose the case of particular poisoning? Describe the fatal dose, the presenting signs and symptoms, treatment/management of any two such important cases of poisoning—one used for homicidal and the other for suicidal purposes.
- How will you preserve the viscera, the body fluids, other medicolegal exhibits for chemical analysis etc. ?
- State the medicolegal use of each one of the two. 1+3+3+2+2+5
3. Write short notes on (any six) : 5x6
 (a) Voyeurism (b) Tox-albumen (c) Rule of nine (d) Infamous (e) *Res Ipsa Loquitur* (f) Knock out mixture (g) Gonadal Dysgenesis (h) Mugging (i) Professional Secrecy (j) Sec. 84, IPC.
- Or** Differentiate between (any six) : 5x6
 (a) Red Phosphorus & Yellow Phosphorus (b) Antemortem Burn & Postmortem Burns (c) Police Inquest & Magistrate's Inquest (d) Medical Ethics & Medical Etiquette (e) Professional Negligence & Infamous conduct (f) Still Born & Dead Born child (g) Cobra venom & viper venom (h) Male skull & female skull (i) Dying declaration & dying deposition (j) A.M. Clot. & P.M. Clot.

4. Write Incorrect or Correct : 1x10
- Cadaveric spasm helps in estimating time since death.
 - Post epileptic automatism and Post traumatic automatism are essentially same.
 - Pyromania is a Psychosexual disorder.
 - Imperforate hymen is often diagnosed at menarche.
 - One can marry any girl-Indian or foreigner-when she is aged 18 Yrs.
 - Punch-drunk is due to head Injury.
 - Lynching is a form of suicidal hanging.
 - Prima facie* evidence is the presumptive evidence.
 - Perforating injury is one that enters a hollow organ.
 - There is no Statutory Law in India for artificial Insemination.

January 1998

Full Marks 90

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer all the questions

1. An unknown middle aged married Hindu female body was found floating in a village pond with a napkin tied around her neck along with multiple injuries of various nature over different parts of her body with signs of blood stained mucus oozing out from her mouth and nostrils and private parts.

How will you ascertain from P.M. findings

- Cause and nature of death-whether suicidal, homicidal or accidental,
- The drowning was antemortem or postmortem,
- Whether she was sexually assaulted or not? 9+8+8

Or A young man of 20 years was recovered from a closed room with evidence of 1st and 2nd degree burn injuries covering nearly 90% of body surface except over an area of 7" x 6" over lower part of ant. abd. wall and soles of both feet. One can containing small amount of kerosene & some burnt match sticks were found near the body. The body on close examination showed evidence of one gunshot wound of entrance over the right temporal region of head.

How will you ascertain from P.M. examination

- the cause of death and nature of death,

- whether death was suicidal or homicidal,
 - whether both the injuries were antemortem or postmortem or whether one was antemortem and the other postmortem?
 - substantiate your answers giving reasons. 6+6+6+7
2. A newly born baby was found in a dustbin, wrapped up in a towel. A young lady has been arrested on allegation of having thrown it there.
- How will you ascertain on examination of the baby and the lady, that
- the baby was live-born and had "separate existence",
 - the cause and nature of death of the baby-whether homicidal or accidental; if homicidal the "modus operandi" undertaken and
 - how will you prove that the lady gave birth to the baby and she was its mother? 8+9+8

Or What is "Drug Addiction and Habituation"? Enumerate, the drugs of addiction commonly abused now-a-days and who are the common victims. Describe the clinical features of addiction by one of such commonly abused drug. What are the measures that are being undertaken to contain this menace under Narcotic Drugs & Psychotropic Substance Act 1985 & 1988 ?

25

3. Write short notes on any five : 6x5
- Infamous conduct in a professional sense
 - Conditions of non detection of poison in the body in case of death from positive case of poisoning.
 - Contre Coup & Coup Injuries-their mechanism.
 - Cafe Coronary.
 - Injuries sustained by front seat passengers of a motor car involved in traffic accident,
 - Summary trial,
 - Secretors and non-secretors-their medicolegal importance
- Or** Differentiate between : (Answer any five) 6x5
- Suicidal & Homicidal & Accidental gunshot injuries
 - Antemortem wounds & Postmortem wounds
 - Live birth & Still birth
 - Professional Negligence & Infamous conduct
 - Male Sternum & Female Sternum
 - Traumatic cerebral haemorrhage & Spontaneous cerebral haemorrhage

- (g) Poisonous Snakes & Non-poisonous Snakes
4. Comment—if "right" or "wrong" on the following :- 1x10
- No death certificate is to be issued until the doctor is confident about brain death of the patient.
 - "Self strangulation" and "accidental hanging" is the same
 - "Obscure autopsy" and "Negative autopsy" are synonymous.
 - "Asstt. Sessions Judges" and "Chief Metropolitan Magistrate" can award the same types of punishments.
 - "Intrauterine Maceration" & "Adipocoe formation" are the same form of "Decomposition".
 - "Darmal Nitrate Test" suggests detection of gunpowder residues more from the back than from the palm of non-firing hand.
 - Korsakoff's psychosis often occurs in a chronic Ganja addict from over-indulgence.
 - "Metal fume fever" is one of the features of "acute Lead poisoning".
 - "Hydrocyanic acid" is more rapidly fatal than the "Cyanides" taken by mouth.
 - "Status thymolympaticus" has been claimed to be sure cause of "Sudden death".

January 1999

Full Marks 90

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer any four questions of which Q.4 and Q.5 are compulsory.

- What are the different data for Identification? How can you ascertain sex of a person from different body remains of an extensively decomposed dead body with loss of most of the soft tissues of the body. 5+20
- Or What are the signs expected to be available in a dead body when death of the subject statedly occurred about 10 (Ten) hours before P.M. examination in summer at a place like Calcutta? What medicolegal informations can we get from Post-mortem Staining and a adipocoe changes in a dead body? 12+8+5
- A rope used as a ligature material when measured was 4' (four feet) long, one end of which is said to have been tied with the

branch of a tree while the other end was tied round the neck of a person who had been found hanging from the tree in the early hours of morning. The dead body with ligature material (rope) was brought to you in due time for autopsy.

- What important findings would you note to give your opinion in your post mortem report that the death was due to hanging antemortem and suicidal in nature and not homicidal strangulation by ligature?
 - What is the importance of examining the rope? 22+3
- Or How can a person be a victim of Lead-poisoning? What measures would you take to prevent such incidence of poisoning? Describe in details the signs, symptoms and the treatment of a chronic case of Lead Poisoning. 5+5+15
- Describe the wound and the anatomical structures involved and damaged in the track of a bullet which had made a punched in-hole at the right temple 1/2" (half inch) in front above the upper attachment of right ear and a punched out-hole 2" (two inch) behind the upper attachment of left ear. Discuss the nature of injury—whether suicidal or homicidal.
 - Or What is Medical Termination of Pregnancy Act 1971? Under what conditions pregnancy is allowed to be terminated under this Act? What are the precautions to be observed and what are the limitations of this Act? 25
 - Differentiate between : (Answer any six) 5x6
 - True Virgin and False Virgin.
 - Drug addiction and drug habituation.
 - Strychnine poisoning and Tetanus.
 - Temporary tooth and permanent tooth.
 - True bruise and False bruise.
 - Secretors and non-secretors.
 - Poisonous and non-poisonous snakes.
 - Male Sternum and Female Sternum.
 - Medical Ethics and Medical Etiquette.
 - Unbreathed Lungs and Breathed Lungs
 - Or Write short notes on any six stating medicolegal importance, if any : 5x6
 - Post traumatic Automatism.
 - Changes in blood and urine in chronic starvation.
 - Magnan's Sign.
 - Masohism.
 - Contact flattening.
 - Scar mark.
 - Feigned insanity.
 - Chronic Ganja psychosis.
 - Lip print marks.
 - Battered baby Syndrome.
 - Say if the statement is correct or incorrect : 1x10
 - Epileptic equivalent is a state equivalent of Epilepsy.
 - DNA finger print is a type of fingerprint that helps in

identification of an individual (c) Tandem bullet is a Ricochet bullet. (d) Diatom test is the surest test in case of drowning. (e) Presence of sperm in vaginal swab of the victim is the essential proof of rape. (f) Mummification is not sure sign of death. (g) Suspended animation is a sign of death. (h) Delusion can be corrected by reasoning. (i) A heat stiffened muscle does not undergo changes of *Rigor mortis*. (j) There is 1.25 cm. to 2cm. variation of height of a person from morning to night.

June 2000

Candidates are required to give their answers in their own words as far as practicable.

1. A middle aged male subject was found lying unconscious over a main road of Calcutta with history of being knocked down by a heavy vehicle. The man was subsequently declared dead by the Emergency Medical Officer of a Hospital. Mention the nature of various injuries expected in such a case. From post-mortem examination how will you opine that those injuries were accidental in circumstance ?
Or Mention a few agents which may produce effect on the eyes indicating the changes. Describe the signs and symptoms produced by any one of such agent.
2. An infant appears to have been born recently was found wrapped in a polythene sheet and was kept inside a toilet of a mail train. How will you opine from post-mortem examination that it was a case of live-birth and not a still-birth ?
Or Describe the various duties which a registered medical practitioner is required to perform in hospital matters.
3. Write short notes on (any three) :
 (a) Lesbianism (b) Partial hanging (c) Exhumation (d) Impulse (e) Toxalbumen.
Or Differentiate between : (any three)
 (a) Animal Hair and Human Hair; (b) Wound of entrance and wound of exit when fired from a revolver; (c) Bruise and Post-mortem staining; (d) Coroner inquest and Police inquest.
4. Explain why : (any three)
 (a) Finger prints are regarded as the surest data for identification.
 (b) Visceras in a suspected case of poisoning are commonly preserved in supersaturated solution of sodium chloride

- and not in formaldehyde.
 (c) Detection of diatoms cannot be regarded as surest proof of ante-mortem drowning.
 (d) Aconite is considered to be an ideal homicidal poison.
 (e) Sterility is not a ground for grant of divorce in the Court of Law.

Or Mention the medico-legal importance : (any three)

- (a) Emptying of stomach contents (b) Rupture of Hymen
 (c) Placenta (d) Scar (e) Blood groups.

5. State whether the statement is correct or incorrect :

- (a) Delirium Tremens is usually found in a case of Head injury.
 (b) Artificial insemination has been made legalised throughout the world.
 (c) Ganja is prepared from the flowering tops of the female cannabis plant.
 (d) Age of giving consent for medical examination by a girl in our country is 16 years.

May 2001

Full Marks: 40

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. Describe the pathophysiological changes in muscles, blood, eyes and bones while playing their roles in details towards estimating the time since death in medicolegal investigations.

10

Or Discuss the criminal aspect of chronic alcoholism with special reference to medicolegal aspect of insanity in respect of such poisoning & outline the plan of treatment in such a case.

10

2. What do you mean by histological determination of sex ? How can you identify sex and age from Skull and Pelvis ?

2+8

Or Define "Impotence and Sterility". State the medicolegal importance of both of them. Describe in details the cause of impotence in males and sterility in females.

3+7

3. Differentiate between (any three) :-

3x3

- (a) Temporary tooth and permanent tooth.
 (b) Professional Negligence and Infamous conduct.

- (c) Datura seeds and Capsicum Seeds.
 (d) Burns from Dry Heat and Burns from Chemicals.
 (e) Coma and Concussion.
4. Write short notes on (any three) :- 2x3
 (a) Barking, (b) Precipitate Labour,
 (c) Artificial Insemination, (d) Privileged Communication
5. Say if the statement is Correct or Incorrect (answer any five) :- 1x5
 (a) DNA finger print is a type of finger print that helps in identification of an individual.
 (b) Cutis Anserina is an important P.M. finding of drowning.
 (c) Suspended animation is a sign of death.
 (d) Epileptic Equivalent is a state equivalent of Epilepsy.
 (e) Atropine is physiological antidote of datura poisoning.
 (f) Post mortem caloridity is same to Post mortem lividity.

April 2002**Full Marks 40**

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable

Answer any four questions

1. What do you mean by Negligence? What are the common types? What steps or precautionary measures should be taken to avoid them? 2+2+6
Or Name the poisons that cause constriction of pupil. Write in short the signs, symptoms and typical post mortem findings of one such poison. 2+4+4
2. What do you mean by evidence and witness? What are the common types of them? Who is a hostile witness & how he should be dealt with? 2+2+3+1+2
Or A box containing some bones have been sent to you by Police. Write on what Medicolegal points you can give opinion. 10
3. Write short notes on (any two) :- 5x2
 (a) Dying declaration, (b) Tattoo Mark
 (c) Ante dote, (d) Scar Mark
Or Write down the points of differences (any two) :- 5x2
 (e) Ante mortem wound and post mortem wound.
 (f) Ante mortem clot and post mortem clot.
 (g) Nux Vomica poisoning and tetanus.
 (h) Milk teeth and permanent teeth.

4. Write down correct or incorrect against each :- 2x5
 (a) Capital punishment may be awarded for committing dacoity with rape.
 (b) Age of criminal responsibility is ordinarily seven years.
 (c) Gunshot wounds are mostly lacerations.
 (d) Partial hanging cases are mostly suicidal.
 (e) Tentative cuts found in different parts of body are indicative of accidental nature.

March 2003**Full Marks : 40**

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. Define post-mortem lividity. What are the factors that modify the appearance of post-mortem lividity? What is the medicolegal importance of it? 2+4+4
Or A dead body of the young married woman found in the well, how will you ascertain that the death is due to drowning? What is difference between fresh water drowning and salt water drowning? 6+4
2. What are the causes of impotence in male? What do you mean by "quod hanc"? Describe the procedure of issuing the potency certificate. 3+1+6
Or Define testamentary capacity. How a medical practitioner should issue a certificate that the person have sound and disposing mind at the time of making will? 2+8
3. Write short notes on any two : 5x2
 a) Dying declaration b) Chronic lead poisoning
 c) Superimposition photography d) Firearm residue.
Or Write down the points of difference of any two of the following : 5x2
 a) Incised wound & lacerated wound
 b) Strychnine poisoning & tetanus
 c) Self inflicted injuries & homicidal injuries
 d) Antemortem burns & postmortem burns.
4. Fill in the blanks with appropriate words : 1x10
 a) Pugilistic appearance of the dead body in burns is due to

- b) Vitriolage is the example of hurt.
- c) Muttering delirium is found in poisoning.
- d) As per wallace rule of nine the superficial burns involving one complete lower limb will constitute % of burns.
- e) Rain drop appearance of skin occurs in chronic poisoning due to
- f) Time required to accumulate/Form a complete thin layer of visible smegma is approximately hours.
- g) False, erroneous but firm belief in something is called as
- h) Smoky green colour of urine occurs in poisoning due to
- i) In identical twins the Finger prints of each individual will appear (similar or different)
- j) In morphine poisoning gastric lavage is indicated even if the morphine is taken by intravenous route because

FORENSIC AND STATE MEDICINE

December 2003

Full Marks : 40

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. What do you mean by Medical Negligence? Write in brief different types of Medical Negligence. 2+8
- Or What is Rigor Mortis? Describe in short the physio-chemical process involved in development of rigor mortis. Write in short the factors which influence the onset and duration of rigor mortis. 2+4+4
2. Define Strangulation. Enumerate different types. Write in short the expected post mortem findings in a case of Strangulation by ligature. 2+3+5
- Or Write the criteria of an ideal suicidal poison. Write in short the signs, symptoms and treatment of a poison consumed for suicidal purpose in our State. 4+2+2+2
3. Write short notes on : (any two) 2x5
 - (a) Antidote, (b) Rule of Nine, (c) Breslau's Second life test,
 - (d) Brain death, (e) Functions of Indian Medical Council.

4. Fill up the Blanks : 1x10
 - (a) Partial hanging is commonly
 - (b) Death Sentence is passed by Court.
 - (c) Impotence is a ground for
 - (d) Rimless Cartridge is used in weapon.
 - (e) Hypernatraemia is seen in drowning.
 - (f) Chromosomal pattern in Turner's Syndrome is
 - (g) test is surest test for antemortem drowning.
 - (h) Principal Toxic Element in Cannabis is
 - (i) Cephalic Index helps in determining
 - (j) Dislocation of a member of joint comes under Sec of I.P.C.

November 2004

Full Marks : 40

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. A fourteen year old school going girl was found dead in her study room with dishevelled clothing and multiple injuries all over the body. How during autopsy, you will conclude that she was sexually assaulted & then smothered to death? 5+5
- Or Mention different datas for identification. How can you ascertain sex of a person from different body remains when the body is in advance state of decomposition? 3+7
2. Define hanging. Write the external & internal findings in a case of typical hanging. What injuries you expect in Judicial hanging? 2+6+2
- Or Define Insanity. Write the different procedure of restraining an insane person in terms of Mental Health Act 1987. 3+7
3. Write short notes on any two of the following : 5x2
 - (a) Tailing of a wound (b) Foetal Haemoglobin (c) Contrecoup Injury (d) Antidote.
- Or Differentiate between (any two) : 5x2
 - (a) Arsenic Poisoning & Cholera, (b) Milk tooth & Permanent

tooth (c) Male & Female Mandible, (d) Ante-mortem & Post-mortem wound

4. Write True or False : 1x10
- A doctor can be both common or expert witness.
 - All Molar tooth are super added.
 - Death sentence can be awarded by Chief Judicial Magistrate.
 - Pin Point Contracted Pupil is seen in Opium Poisoning.
 - Intact hymen is not always the sure evidence of virginity.
 - Tattooing around wound of entrance of a gun shot wound suggest close range firing.
 - Intrauterine maceration is the surest sign of intrauterine foetal death.
 - Posthumous child is considered to be an illegitimate child.
 - BAL is an antidote for heavy metal poisoning.
 - Delusion is the surest sign of insanity.

2006

Full Marks 50

Use separate answer script for each group.

Attempt all questions. The figures in the margin indicate distribution of marks in each question.

Answers to questions of group D is to be completed within first twenty minutes and handed over to the Invigilator positively.

Group-A

- A moderately decomposed adult male dead body was found floating in a pond during summer with no apparent marks of external injury. Discuss, how during autopsy you will ascertain, (i) Whether the person died due to antemortem drowning; (ii) Time passed since death. 2+3
 - Name some poisons which cause dilatation of pupils. Write in short, the characteristic signs & symptoms & specific treatment. 1+1+1+2

Group-B

- Write medicolegal importance of (any two) : 2x2½
 - Patterned bruise; (ii) Hair; (iii) DNA finger printing; (iv) Age of 18 year in female.

- Write short notes on (any two) : 2x2½
- Witness; (ii) Pseudocyesis; (iii) Post Mortem Caloricity; (iv) Incest.

Group-C

- Differentiate between (any two) : 2x2½
 - Police Inquest & Magisterial Inquest; (ii) Human hair and Animal hair; (iii) True virgin and false virgin
 - Explain why (any two) : 2x2½
 - Dimercaprol is used as antidote in acute Arsenic Poisoning; (ii) Marbling is seen during the process of decomposition; (iii) Medical evidence of Sexual intercourse is not legal evidence of rape.

Group-D

- Fill in the blank with appropriate word (any three) : 3x1
 - Medicolegal angle of mandible help to determine of the individual.
 - Fracture of Hyoid cartilage is common in
 - Intraocular tension becomes zero after hours
 - means a male who is impotent to one woman but not with the others.
 - Choose the most appropriate answer (any three) : 3x½
 - Inquest in custodial death is done by :
 - Superintendent of the Jail; (b) Officer in charge of local police station; (c) Executive Magistrate
 - Death from gagging is mostly :
 - Homicidal; (b) Suicidal; (c) Accidental
 - Wads & discs are detected in a firearm injury caused by :
 - Rifle; (b) Revolver; (c) Shotgun
 - Stomach wash is absolutely contraindicated in poisoning by :
 - Nux Vomica; (b) Sulphuric Acid; (c) Morphin
 - Mention whether the following statements are "correct" or "not" (any five) 5x½
 - Brain death is studied for moment of death; (ii) Kleptomania is a type of delusion; (iii) Foot drop & wrist drop is seen in chr. Lead poison; (iv) Adultery by a registered medical practitioner amounts to professional misconduct; (v) Contrecoup injury is

commonly seen over kidneys; (vi) Post Mortem examination is mandatory in Judicial Hanging.

- d) Match the items over Right & Left : 6x½
- | | |
|---------------------------|---|
| i) Widely dilated pupil | i) Suicidal cut throat wound |
| ii) Hesitation cuts | ii) Dhatura poisoning |
| iii) Slitlike external os | iii) Sign of somatic death |
| iv) Cadaveric spasm | iv) Decomposed dead body |
| v) Maggot crawling | v) Legal test for mental illness in India |
| vi) Sec-849 PC | vi) Vaginal normal delivery |

2007 Paper - I Full Marks : 40

Use Separate answer script for each group Attempt all questions. The figure in the margin indicate distribution of marks in each question.

Group - A

- 1.A) Describe briefly the findings in an eighteen year old female subject which will suggest that she is accustomed to sexual intercourse and that she was subjected to sexual intercourse against her will and without her consent. 5
- B) Describe briefly the procedure for giving evidence in account of law. Enumerate the criminal courts in India. Describe briefly the punishments awarded by Indian courts. 2+1+2

Group - B

2. A) Write medicolegal importance of (any two) : 2 x 2½
- i) Tatoo marks. ii) Mummification. iii) Nail Scratch Abrasions. iv) Diatoms.
- 2 A) Write short notes on (any two) : 2 x 2½
- i) Delusion. ii) Informed consent iii) Documentary evidence. iv) Battered Baby Syndrome.

Group - C

3. A) Differentiate between (any two) :
- i) Rigor mortis and cadaveric spasm. ii) True and false vergin. iii) True and false bruise. iv) Fresh water and sea water drawing
- B) Explain why (any two) :
- i) Post-mortem blisters are seen during the process of decomposition. ii) In partial, hanging, the peson is unable to release the knot though the support is present, as part of the body is in touch with the ground. iii) Extensive-Superficial Burn Injuries is more dangerous than localised Deep Burn. iv) Positive Biological Tests are not sure proof of pregnancy.

Group-D

4. A) An old man with pin point pupils and signs of coma was brought to the

Emergency Dept. of your Hospital.

What are the possibilities? How will you make the differential diagnosis of such case? 1½+3½

B) Write down :

- a) Fatal dose of : i) Methyl Alcohol ii) Acconite iii) White Phosphorous
b) Mode of Actions of : i) Carbon monoxide ii) Abrus Precatorius. c) Criminal uses of : i) White Arsenic ii) Dhatura
d) Tests for detection of : i) Ethyl Alcohol in Blood, ii) Organo phosphorous, iii) Arsenic.

2009

Full Marks 40

Use Separate answer script for each group

Attempt all questions. The figures in the margin indicate distribution of marks in each question.

Group-A

1. (a) How postmortem examination of the dead new born may help to conclude that it was a case of precipitate delivery and not a case of infanticide? 5
- (b) State the functions of Medical Council of India. 5

Group-B

2. (a) Write medico legal importance of (any two) : 2x2½
- (i) Tailing of wound. (ii) Lucid interval insanity, (iii) Mummification.
- (b) Write short notes on (any two) : 2x2½
- (i) Obscure autopsy. (ii) Burking. (iii) Informed consent.

Group-C

3. (a) Differentiate between (any two) : 2x2½
- (i) Primary and secondary relaxation. (ii) Bruise and Postmortem staining. (iii) True virgin and false virgin.
- (b) Explain why (any two) : 2x2½
- (i) Stab injury over right ventricle is more dangerous than over left ventricle. (ii) Rape is not a medical opinion. (iii) Torture findings are more objective than subjective.

Group-D

4. (a) Name four poisons causing constriction of pupils. Write in short the signs & symptoms and treatment of any one. 1+2+2
- (b) Mention the criminal uses of the following poisons (any two) : 2x1
- (i) Sui (ii) Marking nut. (iii) Capsicum seed.
- (c) Mention the active principle in the following poisons (any three) 3x1
- (i) Abrus precatorius. (ii) Cannabis indica. (iii) Nux Vomica. (iv) Dhatura.

2010 Paper - I Full Marks : 40

Use Separate answer script for each group Attempt all questions. The figure in the margin indicate distribution of marks in each question.

Group A

1. (a) Discuss the autopsy findings that will conclude that death was due to drowning in a dead body recently removed from water. 5
- (b) Explain the concept of serious professional misconduct and state examples that constitute the offence of serious professional misconduct 5

Group B

2. (a) Write medico legal importance of (any two): 2x2
(i) Lochia (ii) Spalding's sign (iii) Abrasion collar
- (b) Write short notes on (any two): 2x2
(i) Self inflicted wounds (ii) Boxing attitude (iii) Privileged communication

Group C

3. (a) Differentiate between (any two): 2x2
(i) Ante mortem and post mortem- wounds (ii) Ante mortem and post mortem burns (iii) Wound of entrance and exit caused by a bullet
- (b) Explain why (any two): 2x2
(i) Hydrostatic test is not conclusive of live birth (ii) Non-detection of spermatozoa and semen in the vaginal swabs from a true victim of rape (ii) Non-detection of poisonous substances on chemical analysis of viscera in a case of death due to poisoning

Group D

4. (a) Explain the meaning of the term 'Drug abuse' and enumerate the differences between drug habituation and drug addiction. 1+2+2
- (b) Write short notes on (any two): 1x2
(i) Plumbism (ii) Vitriolage (iii) Aconite
- (c) Mention criminal uses in following poisons (any two):
(i) Aconite (ii) Dhatura seeds (iii) Calotropis

2011 Paper - I Full Marks : 40

Use Separate answer script for each group Attempt all questions. The figure in the margin indicate distribution of marks in each question.

Group A

1. (a) Discuss the autopsy findings to opine as to the cause and nature of death in a dead body with ligature mark around neck. 5

- (b) Write in short, the constitution and function of Medical Council of India and State Medical Council. 2 1/2 + 2 1/2

Group B

2. (a) Write medicolegal importance of (any two): 2 1/2 x 2
(i) Algor Mortis; (ii) Parallel lines of bruise; (iii) Arborescent marking.
- (b) Write short notes on (any two): 21x2
(i) Battered baby syndrome; (ii) Artificial Insemination; (iii) Res Ipsa Loquitur.

Group C

3. (a) Differentiate between (any two): ' 2-x2
(i) Dying Declaration and Dying Deposition; (ii) Bum and Scald; (iii) Human hair and Animal hair.
- (b) Explain why (any two): 2-x2
(i) Medical evidence of sexual intercourse is not legal evidence of rape; (ii) Immunological test for pregnancy is not regarded as sure sign of pregnancy; (iii) Hydrostatic test is not conclusive of live birth.

Group D

4. (a) Define chelating agents. Mention the dosage, route of administration and indication of using BAL & EDTA. 1+2+2
- (b) Write the specific antidotes (any two): 1x2
(i) Morphine poisoning; (ii) Organophosphorus poisoning; (iii) Chronic lead poisoning.
- (c) Enumerate (any three):
(i) Poisons causing convulsion; (ii) Poisons causing hurried respiration; (iii) Poisons diagnosed by odour; (iv) Poisons causing constriction of pupil.