

COLLECTED QUESTIONS A - FORENSIC MEDICINE

IDENTIFICATION:

- Finger prints. (97)
- Identification of age from skull. (94)
- Identification of sex from skull and pelvis. (2005)
- Identification of age from appearance & ossific centers. (94, 96)
- Identification of sex from bones. (94)
- Union of epiphysis in identification. (95, 96)
- Medico legal importance & diagnosis age of 21 years. (96)
- Medico legal importance & diagnosis age of 18 year. (96)
- Identification and medico legal importance of ages of 17 and 18 years. (2007)
- Hyoid bone. (97)
- Sex identification of a living person. (97)
- Medico legal importance of teeth examination. (91/93)
- Identification of age from teeth examination. (94, 95, 96, 2005)
- MLI of hair examination. (97, 98, 95, 2005)
- MLI of Disputed paternity. (98)
- Give reason: Foot print can help in identification. (sept 2008)
- Give reason for: Teeth examination can help in personal identification. (Jan 2009)

Identification

- Justify: blood is a good negative evidence in disputed paternity 2021
- Discuss individualization of bloodstains. 2015

- Medicoligal applications of blood groups. (02.02.01)
- Micro chemical tests. (98)
- Give an account on BLOOD TRANSFUSION reaction. (98)
- Discuss incompatible transfusion reaction. (2007)

Hemolytic blood transfusion reaction

- Medecolegal applications of DAN finger printing. (96,2003)
- RH factor. (98)

Give reason
Blood grouping is considered as a good negative test in paternity testing (sept 2008,2013)

CHAPTER 13 →

??

CHAPTER 10 ASPHYXIA→

!!!!!!-->

DEATH & POSTMORTEM CHANGES:

- Sudden infant death syndrome. (95)
- Definition & Medicolegal importance of hypostasis. (94, 98)
- Differences between bruises & hypostasis. (2003)
- Mummification & its medicolegal importance. (95,97)
- Cadaveric spasm. (95,96,97, may&fin2005)
- MLI of putrefaction. (94)
- Maceration. (97)
- Post-mortem eye changes. (98)
- Rigor mortis and its medicolegal importance. (dec2005)
- Give account on persistent vegetative state. (June2008)
- Discuss two methods of execution (death sentence) and post mortem picture of persistent vegetative state. (Jun 2008)
- Describe the post-mortem picture due to death from strangulation. (2008)
- Autopsy findings in the air passage and lungs in drowned bodies. (sept 2008)
- Give a ccount on: Postmortem finding in drowning. (2009)
- Give a ccount on: Cadaveric spasm. (2009)
- Mention the differential diagnosis between: Bruise and hypostasis. (Jul 2013)
- Explain: Hypostasis is an indicator of cause and time passed since death. (Jan 2014)
- Rigor mortis is special medicolegal importance, discuss. (Jun2014)
- Discuss brain stem death from Medicolegal point of view. (sept2015)
- Define sudden death & mention the cardiovascular causes.

Death

- Discuss **brain stem death** from medicolegal point of view. 2014

Postmortem

- Define different causes of postmortem **muscle rigidity**, state their mechanism and the differences between them. 2019
- List **conditions replacing putrefaction** and describe the details of the one occurring in drowned bodies. 2017
- **Rigor mortis** is of special medicolegal importance, discuss. 2014

Wounds

- Differentiation between **neurogenic shock** types after wound 2021, 2020
- Compare between types of **wounds produced by sharp edged instruments** (similarities & differences). 2018

MEDICOLEGAL ASPECT OF WOUNDS:

- MLI of Abrasions. (98)
- Finger nail abrasions & their medico legal importance. (95)
- Characters of cut wounds & its age estimation. (94)
- Suicidal & homicidal cut throat. (90, 92, 97)
- Post mortem neck examination in case of cut throat. (97)
- Contused or lacerated wounds (laceration). (94)
- Stab wounds. (94)
- Subendocardial hemorrhage. (95, 2004, 2006)
- Causes of death from wounds. (94)

نفس بتعبر

{59}

أسرة صلاح الدين

- Air embolism. (97)
- Ante and post-mortem wounds (including abrasion and bruises). (Apr2005)
- Primary or neurogenic shock. (dec2005)
- Secondary or "haematogenic shock". (2007)
- Differences between "Cut" and "Contused" wounds. (2007)
- *A young 18 years old male was found dead in his room with an incised wound in the neck. Huge amounts of blood-stains were seen on a mirror and on the ventral aspect of his clothes. A razor was seen nearby the body.* (2008)
- 1- Do you think that this case was homicidal, suicidal or accidental? And why?
- 2- How could you confirm your suspicion through examination of the wound?
- 3- Enumerate the causes of death from cut throat?
- 4- Describe the post-mortem findings which could you see in that case?
- 5- How could you estimate the age of that male?
- 6- What was the medico-legal importance of the age of 18 years for males?
- Give reason for : (sept 2008)
 - The inlet wound of the bullet may show irregularity.
 - Examination of a stab wound helps in identification of the causal object
 - Hyoid bone examination is of medicolegal importance.
- Give reason for: Site of the bruise may denote the nature of the assault. (Jan 2009)
- Give a ccount on: Complication and causes of death from wounds. (2009)
- Give an account on Fabricated wounds. (2009)
- Differentiate homicidal from suicidal cut throat. (Jul 2013)
- Describe diffuse axonal injuries (DAI). (June 2015)
- illustrate driver's injuries. (June 2015)

FIREARM→

RTA→

- Justify: **laceration in spinal cord** may occur without direct trauma 2021
- Differentiate homicidal from suicidal cut throat. 2013

?? →

HEAD INJURIES:

- Thermal fracture of the skull. (95)
 - Differential diagnosis between thermal traumatic head injuries. (98)
 - Types of skull fractures & their healing. (94)
 - Cerebral concussion. (2015)
 - Compression by intracranial hemorrhage. (97,99)
 - Clinical picture of cerebral compression. (2003.feb2005)
 - Lucid interval. (95, 98, Sept 2005)
 - Medico legal Importance of Lucid interval. (2007)
 - Extradural hemorrhage. (97, 99)
 - Sequelae or side effects of head injuries. (2003)
- A 16 years-old male was involved in a quarrel. He was admitted to hospital with headache and vomiting. On examination, he was confused with scalp injury in the right temporo-parietal region. Few hours later, he passed into coma with unequal pupil size and the heart rate was 55 beats minute. **بص ينجد** (sept 2008)
- What is your diagnosis? What is t - proper management of such case? (3 marks)

نبض يتعده

{60}

أسرة صلاح الدين

written Overdose -4th year | 2015/2016

?? →

- How can you diagnose the side of brain lesion? (2 marks)
- What are the possible sequelae of such case? (3 marks)
- How can you verify that the age of the victim is 16 years? (2 marks)
- Give an account on intracerebral haemorrhage. (Jun2009)
- Discuss two methods of execution (death sentence) and post mortem picture of intracerebral haemorrhage. (Jun2009)
- Give an account on how can skull fractures denote the site of the assailant. (Sep2009)
- Illustrate fracture of the base of skull. (Jul2011)
- Define Lucid interval: mention its medicolegal importance and how to avoid malpractice. (Jul2013)
- Describe diffuse axonal injuries (DAI) (2015)

Pg63

Head

- Differentiation between **concussion and compression** 2021, 2020, 2019
- Give an account on MLI of **fracture base** of the skull. 2018, 2011
- Discuss management of a case of traumatic **cerebral compression**? 2016
- Describe **diffuse axonal injury (DAI)**. 2015

Pg.68 ,69	FIREARM INJURIES.
Pg.69	Estimation of distance of firing in cases of firearm injuries & factors governing it. (94,98)
	Characters of near firing injury by a bullet. (2002)
	Describe the lesions in a shot injury at a distance of one meter. (96)
Pg.67	Percussion cap of firearm cartridge. (94)
	Powder marks & their medicolegal importance. (95,97)
	Difference between "inlet" & "exit" wounds in firearm injuries. (2004, sept2005,2006)
	Sequence of events after firing a cartridge. (91, 95)
Compare?	Compare homicidal, suicidal & accidental firearm wounds. (2003)
	Character of fire-arm wounds include difference between inlet and exit wounds. (dec2005)
	Fire-arm cartridge. (sept2005)
	Enumerate factors affecting the appearance of inlet wound/s in firearm injuries. (2008)
D.D??	Give reasons for the inlet wound of a bullet may show irregularity. (Sep2008)
?	<u>Mention the differential diagnosis between:</u> Inlet and exit firearm wound. (2009)
	Explain how can radiology plays an important role in investigations of firearm. (Jun2010)
	List injuries in forensic practice that may include inlet and exit wounds, and discuss two of them. (Jul2011)
	Discuss gun powders and their role in estimation of the distance of firing. (Jun2014)
Chapter 5	Describe possible mechanisms & medicolegal aspects of spinal injuries (sept2015)

Firearm

- Give an account on types of injuries related to explosions. 2019
- Discuss estimation of distance of firing in non-rifled weapons. 2017

Pg.77

Pg.78

THERMAL INJURIES:

- Difference between burns
- Ante-mortem burn.

نبرض يتجسط

(94)

(96)

نبرض يتجسط

{61}

أسرة صلوح الدين

Thermal

- Discriminate between **antemortem** and **postmortem** burn. 2019, 2013
- Discuss types of **shock** that may occur with fatal burns with regards to causes, timing & manifestations. 2018

D.D?

Pg.78

Pg.80

- Give the differential diagnosis between the different types of thermal injuries. (98)
- Cause of death from burns. (94)
- Causes of death from electric shock and the post-mortem picture. (98)
- A young 21 years old girl with a history of psychiatric disorders was admitted to a hospital showing severe extensive skin burns involving the face, chest, abdominal wall, arms and thighs. Two old scars were seen at the ventral aspect of her left wrist. She died within 6 hours after being admitted. (2008)
- 1- Do you think that this case was homicidal, suicidal or accidental? And Why? (1.75 points)
- 2- How could you confirm the ante-mortem nature of such burns? (2.25 points)
- 3- Enumerate the possible causes of death in that case? (1.5 points)
- 4- Describe the post-mortem findings which could you see in such case? (2 points)
- 5- How could you estimate the age of that girl? (1.5 points)
- 6- What was the medico-legal importance of the age of 21 years? (1 point)
- Causes of death from burn. (sept 2008)
- Give an account on: Heat hyperprexia. (Jun2009)
- Discuss two methods of execution (death sentence) and post mortem picture of Heat hyperprexia. (Jun2009)
- Give an account on: Degrees and extent of burns (Sep2009)
- Discuss delayed causes of death from burns. (Jul2011)
- Discriminate between antemortem and post mortem burn. (Jul2013)
- Explain causes of death from burn. (Jun 2014)

ASPHYXIA:

- Ligature mark.
- Tardieu spots & silvery spots.
- Traumatic asphyxia.
- Causes of death in hanging.
- Sure signs in diagnosis of drowning.
- Sure external signs only of drowning.
- Discuss the diagnosis of asphyxia of drowning.
- Plankton & its medicolegal importance.
- Give a full account on Diagnosis of drowning.
- Describe the post-mortem picture of death due to strangulation.
- Explain : Hyoid bone examination is of medicolegal importance.
- Give an account on traumatic asphyxia .
- Define Burking and describe the specific post-mortem findings.
- Discuss atypical drowning

(94, 96, Dec, Jan 2005)

(2003)

(2002)

(96, 98) ^S

(94, 98)

(2003)

(96)

(95)

(sept 2005)

(Jun 2008)

(Sep 2008)

(Sep 2009)

(Jun 2010)

(sept 2015)

?? plankton?

Hyoid bone?

Pg.104

نَبْضٌ يَتَجَدَّدُ

نَبْضٌ يَتَجَدَّدُ

{62}

أسرة صلاح الدين

Asphyxia

- Discuss 2 types of **atypical drowning** 2021
- Discuss different mechanisms of **immersion deaths**. 2019, 2016
- Define **Burking** and describe the specific postmortem findings? 2010

Sexual assaults

- Conditions of **valid consent in rape 2021**
- State **types of hymen** that cause medicolegal problems. Out mark the problem **2020, 2019**
- Discuss medicolegal aspects of **hymen examination. 2013**
- **Seminal stains. 2010**

SEXUAL OFFENCES:

- Conditions of consent in rape. (90,92oct&feb2005)
- Types of hymen. (95)
- Signs of virginity and causes of rupture of hymen. (98)
- Compare between a dentate hymen and an old ruptured hymenal tear. (98)
- Compare a recent & an old hymenal tear. (98)
- MLI of sodomy. (98)
- Give reason for: Imperforate hymen may cause medico legal problem. (Jan 2009)
- Discuss Medicolegal aspects of hymen examination. (Jul2013)
- Describe findings in examination of passive sodomist. (Sept2015)

MEDICOLEGAL ASPECT OF PREGNANCY:

Pg.121

- Signs of old delivery. (95)
- External signs of recent delivery. (2002)
- Gravindex test of pregnancy. (95, 98)
- Explain how can radiology plays an important role in investigations of pregnancy. (Jun2010)

Pg.119

MEDICOLEGAL ASPECT OF ABORTION:

- Dangers of abortion. (91, 96, 2005, 2006)
- Criminal abortion. (91, 92, 97, 97)
- Discuss Hazards of criminal abortion. (2001)
- Dangers or Complications of Abortion. (2007)
- Drugs induced abortion. (Sept 2008)
- Discuss dangers of criminal abortion. (Jun2010)
- "Some surgical interventions require preequisites by Egyptian law otherwise they are considered illegal operations" Explain and mention three examples. (Jul2011)

TRANSPORTATION:

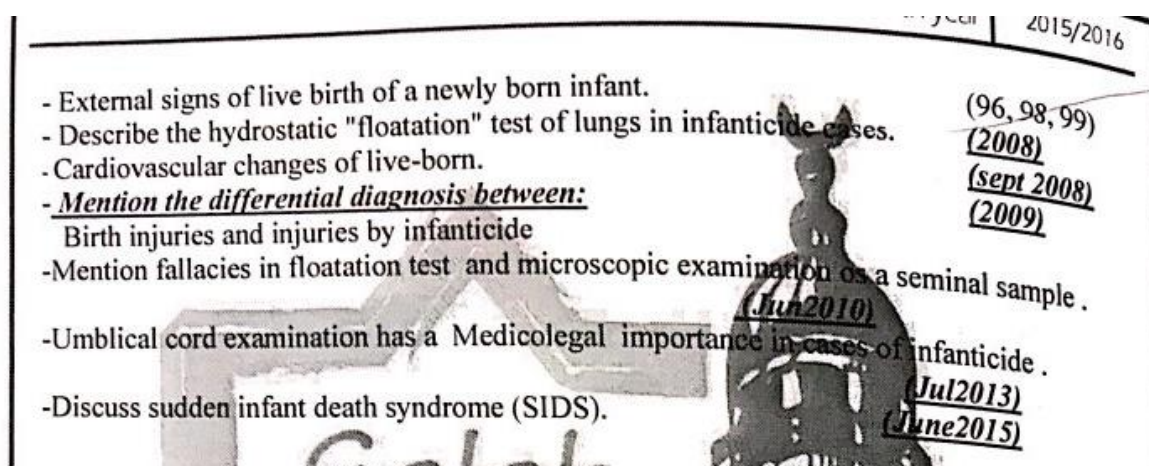
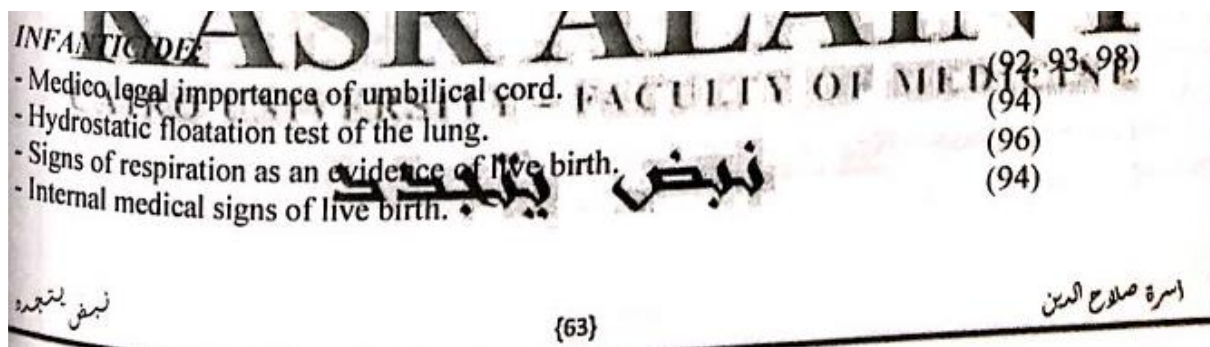
- illustrate driver's injuries. (2015)

Pg.128

Floatation
test?

Umbilical
cord imp!

SIDS page
129



Obstetrics

- Justify: fatality occurs after **abortion 2021**
- Discuss fatal complications of **abortion 2020**
- Discuss medicolegal responsibility of the doctor in cases of **abortion. 2018**
- Describe dangers (causes of death) from **criminal abortion. 2017, 2010**
- Mention **abortifacient drugs? 2016**

Infant death

- Discuss sudden infant death syndrome (SIDS). 2015

Skeletal
injuries?
Pg.134

Domestic violence :

Explain how can radiology plays an important role in investigations of child physical abuse. (Jun2010)

MEDICAL ETHICS & MALPRACTICE:

- Write short notes on malpractice.
- Discuss consent in medical pract.
- Professional medical secrecy and Indtion of its disclosure.
- Consent in medical practice.
- The consent for medical examination and treatment is considered invalid in some situations .

(96, 98)
(2000 / 2001)
(Apr&may2005)
(sept 2008)
(Jul2013)

Ethics

- Discuss types and validity of consent in medical practice. 2017
- Some surgical interventions require perquisites by Egyptian law or otherwise they are considered illegal operations" Explain and mention three examples. 2011

??????

- Explain how can radiology plays an important medicolegal role in investigations of firearm, pregnancy and child physical abuse? 2010

TOXICOLOGY

GENERAL TOXICOLOGY:

- Stomach wash. (95, 96, 98, 99, 2004, Dec & Feb2005)
- Give an account on Hazards of gastric lavage. (2001)
- Syrupe of ipecacuana. (97, 98, 99)
- Chemical adsorbent. (97)
- Give an account on dieresis. (98, 99)
- Short notes on Antidotes. (92, 93, and 96)
- Write on D.M.S.A. (97, 98, 99, 2001)
- B.A.L & E.D.T.A (2004.oct2005, 2006)
- Enumerate the methods of induction and contra-indications of emesis "induction of vomiting". (2008)

. Give an account on : Oral chelators .

. Give an account on: Emesis.

. Describe competitive antidotes. (3 examples)

. List 4 drugs/poisons that can be removed by Hemodialysis & discuss the clinical manifestation of acute toxicity of one of them.

CORROSIVES:

(Sep2008)

(2009)

(Jul2011)

(june2015)

General

- Justify: gastric wash contraindicated in Kerosene 2021
- Define the anion gap, and discuss the treatment of acute toxicity of one drug/toxin that may cause a decreased anion gap. 2018
- List three drugs/poisons that cause metabolic acidosis with elevated anion gap. Discuss the clinical manifestations of acute toxicity of one of them. 2016

Toxidromes

- 5 signs of **barbiturate** coma [2021](#)
- Mention the clinical manifestations of **neuroleptic malignant syndrome**. [2020](#)
- Mention the mechanism of action and clinical picture of acute **cocaine** poisoning [2019](#)
- Discuss the mechanism of action and clinical picture of acute **tramadol** poisoning. [2017](#)
- Discuss the clinical picture and treatment of acute **barbiturate** poisoning. [2016](#)
- Discuss the clinical picture and late Sequelae of **organophosphate** poisoning. [2016](#)
- Demonstrate clinical pictures and treatment of **opiate** dependence. [2015](#)
- Illustrate a protocol to treat a case of **opioids** addiction? [2011](#)
- Mention the mechanisms of cardiac manifestations in **imipramine (TCAs)** overdose? [2011](#)
- Discuss withdrawal manifestations of **opiate** dependence? [2010](#)

7

KASR ALAINY (90,91,92)
FACULTY OF MEDICINE (97)
PLANT POISONS
- Acute morphine poisoning
- Give an account on Naloxone (narcant)
- Clinical picture & treatment

CORROSIVES:

- Treatment of corrosive alkalis. (97)
- The clinical picture of sulphuric acid poisoning. (97,98)
- Discuss alkaline potash poisoning. (96,98,99)
- A child two years old swallowed a tea spoonful of diluted alkaline potash. He vomited froth blood-tinged fluid. His mother asked medical advice by calling the poison control center.
 - a) What is the proper management.
 - b) What is the cause of death in this case? (2000)
- Treatment & post mortem picture of carbolic acid. (90,92)
- Action, Fatal dose, Fatal period and Clinical Picture of "Carbolic acid". (The postmortem picture is not included) (2007)
- Give an account on : management of oxalic acid poisoning. (Sep 2008)
- Give reason for: Gastric lavage is contraindicated in inorganic corrosive ingestion. (Jan 2009)
- Mention the differential diagnosis between: Acid and alkali corrosive. (2009)

Corrosives

- Differentiate between mechanism of action of acids and alkali corrosives 2021
- Justify: gastric lavage is indicated and essential in carbolic acid poisoning 2020
- Discuss the complications and investigations needed in inorganic corrosive poisoning 2019
- How could you treat a case of inorganic corrosive poisoning? 2017

Medical

- Mention **paracetamol** phases 2021
- Justify: metabolic acidosis is common with **salicylates** poisoning 2021, 2020
- Discuss the clinical picture and treatment of acute **iron** toxicity. 2018
- Discuss mechanism of action and clinical presentations of acute **digitalis** poisoning. 2015
- Discuss mechanism of action and clinical pictures of acute **iron** poisoning. 2014
- Mention the mechanisms of cardiac manifestations in **digoxin** overdose? 2011
- Mention the mechanism of **paracetamol** toxicity? 2010

Medical toxicology :

- Clinical picture & treatment of amphetamine poisoning. (96)
- Write on N-acetyl cysteine. (97)
- Discuss the treatment of Paracetamol overdose. (98/2000)
- Mention the differential diagnosis between: (2009)
 - Abuse and dependence drug abuse
- Give reason for :forced alkaline diuresis is done in acute salicylate poisoning. (Sep2008)
- Mention the mechanism of paracetamol toxicity. (Jun2010)
- Mention The mechanisms of cardiac manifestations in Digoxin and Imipramine (TCAs) overdose. (Jul2011)
- Demonstrate clinical pictures & treatment of opiate dependence. MED (Jan2015)
- List four drugs/poisons that may cause Coma & Constricted pupil. Discuss the specific antidote of acute toxicity of two of them. (sept2015)

- Give an account on acute digitalis toxicity.
- Describe the treatment of acute ethanol poisoning

(2008)

- Discuss mechanism of action & clinical presentation of acute digitalis poisoning. (june2015)

- Treatment of strychnine poisoning.
 - Clinical picture of Strychnine poisoning.
 - Treatment of digitalis overdose.

(2003)
 (97,98)

Pesticides

- Justify respiratory depression occurs in organophosphate poisoning 2021
- Mention the differences between carbamates & organophosphates 2019
- Compare between organophosphate and carbamate insecticides, regarding their mechanism of action & lines of treatment. 2018
- Discuss the investigations needed in a case of organophosphate poisoning and its late sequelae. 2017
- Discuss the clinical picture and late Sequelae of organophosphate poisoning. 2016

INSECTICIDES:

- The clinical picture of organophosphorous poisoning. (98)
- Carbamate toxicity ttt. (97)
- Action, fatal dose, fatal period and clinical picture of Parathion, i.e. organic phosphorus insecticides poisoning. (The post mortem picture is not included) (Sept 2005, 2006)
- Treatment of organic phosphorus poisoning. (96, 2005)
- Treatment, only, of "Atropine Poisoning". (2007)
- Describe the clinical picture of acute organophosphate poisoning. (Jun 2008)

Toxic gases

- Discuss indications and benefits of hyperbaric oxygen in CO poisoning 2020
- Discuss mechanism of action and clinical picture of acute carbon monoxide poisoning. 2018
- Discuss the mechanism of action and specific antidotes in case of CO poisoning. 2017
- Discuss the mechanism of action and specific antidotes used for treatment of acute cyanide poisoning. 2016
- Explain mechanism of action and laboratory investigations of carbon monoxide poisoning. 2014
- Discuss the clinical pictures and complications of carbon monoxide poisoning. 2013

TOXIC GASES:

- Laboratory diagnosis of CO poisoning. (92,95,98,2003)
- Clinical picture of CO poisoning. (fin 2003)
- Treatment only of "Cyanide" poisoning. (2004/sep/2005/2006)
- Treatment of carbon monoxide poisoning. (92,95,98,2003)
- Differential diagnosis of red asphyxia. (97)
- Kerosene poisoning ttt. (97)
- Give reason for: Red asphyxia is a feature of cyanide poisoning. (Sep 2008)
- Give an account on cyanide kit. (Sep 2009)

-Discuss the clinical picture and complications of carbon monoxide poisoning .

(Jul2013)

-Explain mechanism of action and laboratory investigations of carbon monoxide poisoning.

(Jun2014)

- Discuss mechanism of action & clinical picture of acute carbon monoxide poisoning.

(sept2015)

Volatiles

- Antidotes of methanol 2021
- Discuss the mechanism of action and treatment of acute kerosene poisoning 2019
- Discuss investigations and treatment of acute methanol toxicity. 2015
- Demonstrate diagnosis and treatment of ethanol dependence. 2014
-

Volatiles:

-Give an account on: treatment of acute methyl alcohol poisoning

(Sep2008)

- Discuss investigations & treatment of acute methanol toxicity

(june2015)

- CAP of Cannabis intoxication
- Treatment of acute ethyl alcohol.
- Give an account on Methanol toxicity.
- Describe the treatment of acute digitalis toxicity.
- Give a ccount on: Treatment of methanol poisoning
- Give an account on volatile sniffing .

(2002)

(2001)

(2008)

(2009)

(Jun2009)

**Food &
animal
poisoning**

- Discuss clinical manifestations and treatment of botulism poisoning 2019
- Discuss botulism as a cause of food-born infection. 2013

ANIMAL POISONING:

- The treatment of snake bite. (97, 98)
- Viper-snake bite. (2000, 2002)
- Give a ccount on: Clinical and management of Botulism and Cobra venom. (2009)
- Give an account on lines of treatmeant of Viper snake bites. (Jan 2009)
- Discuss Botulism as a cause of food born infection. (Jul 2013).

- C/P of Cannabis intoxication.
- Acute ethyl alcohol.

(98)
(2002)

ADDICTION:

- Ethyl alcohol addiction. (94)
- The clinical picture of organophosphorous poisoning. (98)
- Carbamate toxicity ttt. (97)
- Give a ccount on: Clinical Picture of organophosphorus compounds (2009)
- Discuss withdrawal manifestations of opiate dependence. (Jan2010)
- Illustrate a protocol to treat a case of opioids addiction. (Jul2011)
- Demonstrate diagnosis and treatment of ethanol dependence. (Jan2014)
- Demonstrate clinical picture and ttt of opiate dependence. (Jun 2016)

Compound:

- Discuss lines of treatment of two poisons that possess different pharmacological actions

?????

- Mention differential diagnosis of four drugs/poisons that cause coma with constricted pupil. Discuss in brief treatment of one of them. 2014
- List four drugs/poisons that cause tachycardia, arrhythmia, dilated pupil, convulsion and coma. Describe the treatment of one of them. 2013
- Describe competitive antidotes 2011
- Discuss mechanisms of action in poisons that induce central or peripheral asphyxia, 2 examples for each. 2011
- Discuss lines of treatment of two poisons that possess opposing pharmacological actions? 2010