

April-2001

[KD 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Branch XIV — Forensic Medicine

(Revised Regulations)

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. What are the ingredients emerged out from a fire-arm and what are their effects on the target and their significance? (25)
 2. Medicolegal significance of long bone. (25)
 3. Short notes on : (5 × 10 = 50)
 - (a) Cot death
 - (b) Legal aspect of Abortion
 - (c) Whiplash injury
 - (d) Surrogate mother
 - (e) Heat Haematoma.
-

November-2001

[KE 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XIV — Forensic Medicine

Part II

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL-ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss and criticise Rape definition. Write in detail about Custodial Rape and 114 A – I.E.A. (25)
2. How to estimate the Age from a single tooth? and add a note on 3rd Molar eruption. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Super-imposition.
 - (b) Human Organ Transplantation Act.
 - (c) Neutron Activation Analysis.
 - (d) Forensic Entomology.
 - (e) Coroner's Inquest and Medical Examiner's System.

[KG 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Forensic Medicine

Part II

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours, Maximum : 100 marks

Answer ALL questions.

1. Discuss the interpretation of the wound of entry in establishing the identity of the weapon, direction and distance in the case of gunshot injury. (25)
 2. Define 'Asphyxia'. Explain the mechanism of death and post-mortem appearances in a case of drowning. (25)
 3. Write notes on : (5 × 10 = 50)
 - (a) Self inflicted wounds.
 - (b) Punishment for rape.
 - (c) Chemical and histological analysis of body fluids to know the time of death.
 - (d) Artificial insemination.
 - (e) Intact hymen is not a proof of virginity.
- Comment.
-

[KH 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XIV — Forensic Medicine

Part II

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the different types of intracranial haemorrhages. Write a note on Lucid Interval (25)
 2. Discuss skeletal sex determination with special reference to Indian studies. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Medullary Index
 - (b) Vagal Inhibition
 - (c) Personal Identification from teeth
 - (d) Battered Baby syndrome
 - (e) Dermal nitrate test.
-

April-2003

[KI 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Forensic Medicine

Part II

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Classify burns and its pathogenesis. Discuss postmortem findings in a case of death due to Electric burns. (25)
 2. Define Hanging. Cause of death from Hanging. From the circumstances and postmortem appearance. How do you determine the suicidal hanging from Homicidal Hanging. (25)
 3. Write notes on : (5 × 10 = 50)
 - (a) Signs of live birth
 - (b) Pedestrian Injuries
 - (c) Medico-legal importance of Pregnancy
 - (d) Explosive Injuries
 - (e) Patterned Injuries.
-

[KJ 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Forensic Medicine

Part II

**Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY**

Time : Three hours Maximum : 100 marks

**Theory : Two hours and Theory : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

**M.C.Q. must be answered SEPARATELY on the
answer sheet provided as per the instructions on the
first page.**

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. (a) Classify violent asphyxial deaths. Discuss the mechanisms of death in fresh and salt water drowning. Mention the post mortem findings and laboratory investigations in case of drowning. (15)

(b) Discuss the changes occurring in the eye after death. (15)

2. Write short notes on : (10 × 5 = 50)

(a) Identification of temporary and permanent teeth.

(b) Age from pubic symphysis changes.

(c) Super imposition technique.

(d) Gustafson's technique.

(e) Dying deposition.

(f) Brain death.

(g) Typical hanging.

(h) Dum dum bullet.

(i) Railway spine.

(j) Lochia.

[KM 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Forensic Medicine

Part II

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Enumerate Intra cranial haemorrhages.
Discuss in detail subdural haemorrhage. Mention the
causes of death in head injuries.

(2) Define Bore of a Fire arm. How do you assess
the range of firing by examining the entrance wound
caused by a shot gun.

II. Short notes :

(10 × 5 = 50)

- (a) Estimating stature using long bones.
- (b) Medicolegal importance of Bite marks.
- (c) Sodomy.
- (d) Agonal thrombi.
- (e) Heat Stroke.
- (f) Obscure autopsy.
- (g) Pseudo strangulation.
- (h) Sexual perversions punishable by law.
- (i) Impotence in males.
- (j) Criminal courts of Law and their powers.

[KO 181]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Branch XIV – Forensic Medicine

Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY

Time : Three hours- Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

(1) Discuss the problems encountered in the Interpretation of cause and Manner of Death in Dowry Death cases due to pressure over the Neck.

(2) Describe how will you establish the Identify, Time since Death, cause and manner of Death in a body with Injuries recovered from water.

II. Write short notes : (10 × 5 = 50)

- (a) Gun powder.
- (b) Injuries caused by Bomb Explosion.
- (c) Railway spine.
- (d) Indecent Assault.
- (e) M.T.P.
- (f) Presumption of survivorship.
- (g) Collecting and Forwarding of Forensic samples for DNA Finger printing.
- (h) Viable Foetus.
- (i) Sudden Death during sports.
- (j) Death in police custody.

[KP 181]

Sub. Code : 2085

II. Short notes :

(6 x 5 = 30)

M.D. DEGREE EXAMINATION.

Branch XIV — Forensic Medicine

**Paper III — FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC
ODONTOLOGY**

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

L Essay :

1. Discuss the role of Forensic pathologist in management of a mass disaster. (20)
2. Discuss the autopsy procedure in case of deaths due to firearms. (15)
3. Describe how the changes in the pubic symphysis help in estimation of age in later years. (15)

- (a) Wip Lash injury
- (b) SIDS.
- (c) Importance of scene of crime visit
- (d) Entamology of the cadevar
- (e) Erotized repetative hanging syndrome
- (f) Bite marks.

[KQ 155]

Sub. Code : 2083

M.D. DEGREE EXAMINATION.

Branch XIV — Forensic Medicine

**FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

**Common to Paper III — (Old/New/Revised Regulations)
(Candidates admitted from 1988–89 onwards)**

and

**Paper IV (for candidates admitted from 2004–2005
onwards)**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

**(1) Discuss the difficulties encountered in the
interpretation of postmortem findings in the neck in
dowry death cases due to compression of the neck. (20)**

**(2) Describe the various factors that help in
establishing Time since death in a decomposed body.(15)**

**(3) Describe the various factors that help in
determining the identity of the Dead bodies in a Mass
Disaster. (15)**

II. Short notes : (6 × 5 = 30)

- (a) Railway Spine.**
- (b) Age Estimation by Gustafson's method.**
- (c) Estimation of stature from long bones.**
- (d) Dangerous weapons.**
- (e) Cardiac Tamponade.**
- (f) Ricochet Bullet.**

[KR 166]

Sub. Code : 2062

M.D. DEGREE EXAMINATION.

Branch XIV — Forensic Medicine

**FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

**Common to Paper III (Old/New/Revised Regulations)
(Candidates admitted from 1988–89 onwards)**

and

Paper IV (for candidates admitted from 2004–05 onwards)

Time : Three hours Maximum : 100 marks

**Theory : Two hours and Theory : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

**1. As a forensic pathologist how will you establish
the identity from the skeletonized remains, add a
special note on estimation of age from the Pubic
Symphysis. (20)**

2. Describe about Forensic Entomology. (15)

**3. Mention different types of skull fracture with the
mechanism and write in detail about sub-arachnoid
haemorrhage. (15)**

II. Short notes : (6 × 5 = 30)

- (a) Self inflicted Injuries**
 - (b) Exhumation in India**
 - (c) Vitreous Humor in estimating TSD**
 - (d) Intersex**
 - (e) MTP**
 - (f) Estimation of Age from a single tooth.**
-

MARCH 2008

[KS 154]

Sub. Code : 2049

M.D. DEGREE EXAMINATION.

Branch XIV — Forensic Medicine

Paper III — FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY

Common to all regulations

Q.P. Code : 202049

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Write Essays : (2 × 20 = 40)
1. Define and classify anoxia. Discuss the autopsy findings in cases of suffocation.
 2. Write an essay on hurt and homicide with reference to IPC. Distinguish between culpable homicide and murder.
- II. Write short notes on : (10 × 6 = 60)
1. Custodial deaths.
 2. Bedside magistrate's court.
 3. Designer babies.
 4. Acute respiratory distress syndrome.
 5. Rape trauma syndrome.
 6. Dating of wounds.
 7. Bertillon's system.
 8. Starvation deaths.
 9. Fry phenomenon.
 10. Aviation injuries.
-

September 2008

[KT 154]

Sub. Code: 2049

M.D. DEGREE EXAMINATION

Branch XIV – Forensic Medicine

**Paper III – FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND
FORENSIC ODONTOLOGY**

(Common to all Regulations)

Q.P. Code : 202049

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Write an essay on forensic Radiology.
2. Discuss the role of Forensic Pathologist in mass disaster management?

II. Write short notes on :

(10 X 6 = 60)

1. Whiplash injury.
 2. Comparison microscope.
 3. Retraction Balls.
 4. Forensic Entomology.
 5. Sydney shark case.
 6. Bite marks.
 7. Lateral Traction Test.
 8. Casper's dictum.
 9. Presumption of survivor ship.
 10. Puppe's rule.
-

March 2009

[KU 154]

Sub. Code: 2049

M.D. DEGREE EXAMINATION

**Branch XIV – FORENSIC MEDICINE
(Common to all candidates)**

**Paper III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code : 202049

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss consumer forum with specific references to cases of medical malpraxis.
2. How do you ascertain the distance and direction of firing from the wound of entrance of bullet injuries? Add a note on explosion injuries.

II. Write short notes on :

(10 x 6 = 60)

1. Medico-legal reports.
2. Human bite marks.
3. Gerantophilia.
4. Negative autopsy.
5. Auto erotic deaths.
6. Nuclear sexing.
7. Privileged communication.
8. Age changes in mandible.
9. Causes of death in burns.
10. Forensic entomology.

March 2010

[KW 154]

Sub. Code: 2049

M.D. DEGREE EXAMINATION

**Branch XIV – FORENSIC MEDICINE
(Common to all candidates)**

**Paper III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code : 202049

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss the medico legal problems encountered in a case of dowry death due to pressure over the neck.
2. Briefly outline the interpretation of the post mortem findings in a decomposed body with injuries recovered from a river.

II. Write short notes on :

(10 x 6 = 60)

1. Bite marks.
2. Mixed dentition.
3. Dactylography.
4. Arcus senilis.
5. Punch drunk.
6. Fractures of the skull.
7. Pontine haemorrhage.
8. Fabricated wounds.
9. Delayed deaths from injuries.
10. Tandem bullet.

MAY 2011

[KY 154]

Sub. Code: 2049

M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE
FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY
AND FORENSIC ODONTOLOGY

Q.P. Code : 202049

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Discuss the autopsy procedure in a case of death due to Fire arms.	6	15	10
2. Define and discuss the causes and medicolegal importance of Suspended animation.	6	15	10
II. Short Questions:			
1. Indecent assault.	3	8	5
2. Forensic odontology.	3	8	5
3. Sudden death during sports.	3	8	5
4. Death due to Viagra.	3	8	5
5. Infertility.	3	8	5
6. Vicarious liability.	3	8	5
7. Age from pubic symphysis.	3	8	5
8. Embalming.	3	8	5
III. Reasoning Out:			
1. Importance of scene of crime visit.	4	10	5
2. Erotized repetitive hanging syndrome.	4	10	5
3. Certification of brain death.	4	10	5
4. Death in Police custody.	4	10	5
IV. Very Short Answers :			
1. Dermal nitrate tests.	1	4	2
2. Punch Drunk syndrome.	1	4	2
3. Heat Ruptures.	1	4	2
4. Lynching.	1	4	2
5. Fabricated wounds.	1	4	2
6. Abrasion collar.	1	4	2
7. Brush burns.	1	4	2
8. Haptoglobulins.	1	4	2
9. Burking.	1	4	2
10. Boxers attitude.	1	4	2

April 2012

[LA154]

Sub. Code: 2049

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE
FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY AND
FORENSIC ODONTOLOGY**

Q.P. Code : 202049

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Discuss the interpretation of the wound of entry in establishing the identity of weapon, direction and distance in the case of gunshot Injury.	9	15	10
2. Discuss and criticize rape definition. Write in detail about Custodial rape 114A-IEA.	9	15	10
II. Short Questions:			
1. Erotized repetitive hanging syndrome.	3	8	5
2. Ricochet Bullet.	3	8	5
3. Designer babies.	3	8	5
4. Casper Dictum.	3	8	5
5. Sudden Infant Death Syndrome.	3	8	5
6. Sub arachnoid hemorrhage.	3	8	5
7. Gas rigidity.	3	8	5
8. Death in Police Custody.	3	8	5
III. Reasoning Out:			
1. Time since Injury of Skull fractures.	4	10	5
2. Difficulties in diagnosis of death from hanging.	4	10	5
3. Stature from Skeletal remains.	4	10	5
4. Conditions that replace Purification.	4	10	5
IV. Very Short Answers:			
1. Concealed trauma.	1	4	2
2. Transparency of the root.	1	4	2
3. Tardieu spots.	1	4	2
4. Goodell's sign.	1	4	2
5. Atavism.	1	4	2
6. Cadaveric Spasm.	1	4	2
7. Postmortem changes of muscle enzymes.	1	4	2
8. Lucid Interval.	1	4	2
9. Nail Marks.	1	4	2
10. Lust Murder.	1	4	2

[LB154]

OCTOBER 2012

Sub. Code: 2049

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE
FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY AND
FORENSIC ODONTOLOGY**

Q.P. Code : 202049

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Describe the Patho physiology of cerebral compression and its legal significance.	9	15	10
2. Discuss the role of Forensic Doctor in management of a Mass Disaster.	9	15	10
II. Short Questions:			
1. Wounds from explosives.	3	8	5
2. Lab diagnosis of Drowning.	3	8	5
3. Foot print Ratio.	3	8	5
4. Psycho social developments.	3	8	5
5. Whiplash injury.	3	8	5
6. Concept of Brain death and organ transplantation.	3	8	5
7. Neutron Activation Analysis.	3	8	5
8. Comment about-Intact Hymen is not a proof of Virginity.	3	8	5
III. Reasoning Out:			
1. Wounds not resemble firearm wounds.	5	10	5
2. Medico legal certificates.	5	10	5
3. Estimation of age in a person of above 25 years.	5	10	5
4. Negative autopsy.	5	10	5
IV. Very Short Answers:			
1. Turner's syndrome.	1	4	2
2. Postmortem Clots.	1	4	2
3. Avulsion fracture.	1	4	2
4. Eunuchs.	1	4	2
5. Psychological Autopsy.	1	4	2
6. Harakiri.	1	4	2
7. Zasko's Phenomenon.	1	4	2
8. Child Molester.	1	4	2
9. Motility of Sperms	1	4	2
10. Heat rupture.	1	4	2

(LC 154)

APRIL 2013

Sub. Code: 2049

M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE
FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY AND
FORENSIC ODONTOLOGY
Q.P. Code : 202049

Time: Three Hours

Maximum: 100 marks

I. Essay: **(2X10=20)**

1. How to estimate age from single tooth and add a note on third molar eruption.
2. Describe the various factors that help in establishing time since death in a decomposed body.

II. Short Questions: **(8X5=40)**

1. Medullary Index.
2. Dermal Nitrate test.
3. Signs of live Birth.
4. Railway spine.
5. Lochia.
6. Sexual perversions punishable by law.
7. Sudden death in sports.
8. Presumption of Survivorship.

III. Reasoning Out: **(4X5=20)**

1. Process of preserving dead body.
2. Exhumation of second Autopsy.
3. Time of Survival of Live born.
4. Torture and Forensic experts.

IV. Very Short Answers: **(10X2=20)**

1. Second Autopsy.
2. Anoxia.
3. Post mortem Changes in Eye.
4. Partial hanging.
5. Dry lung Drowning.
6. Trichology.
7. Marital rape.
8. Abortifacient drugs.
9. Embalming
10. Tandem bullet.

[LE 154]

APRIL 2014

Sub. Code: 2049

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE
FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY AND
FORENSIC ODONTOLOGY**

Q.P. Code :202049

Time : Three Hours

Maximum : 100 marks

I. Essay: **(2X10=20)**

1. Write in detail about identifying, lifting, classifying FINGER PRINTS and add a note about POROSCOPY.
2. Write about sex differences in SKELETAL REMAINS.

II. Short Questions: **(8X5=40)**

1. Write about HERMOPHRODITISM.
2. Write about age assessment by changes in PUBIC SYMPHYSIS.
3. Write about STATURE assessment by various measures.
4. Betillion's system.
5. Write about medico legal importance of BITE MARKS.
6. Write about assessment of RANGE OF FIRING in a rifled fire arm by using TERMINAL BALLISTICS.
7. Write about LEGITIMACY and its medico legal issues.
8. Write about MANCHAUSENS syndrome and MANCHAUSENS syndrome in proxy.

II. Reasoning Out: **(4X5=20)**

1. Sodium fluoride is used as a preservative for blood.
2. Permanent third molar is called WISDOM TEETH.
3. Doctor plays a major role in identification in MASS DISASTER.
4. All cavities to be examined during autopsy.

IV. Very Short Questions: **(10X2=20)**

1. Algor mortis.
2. Types of identification
3. Ear prints.
4. Personal effects in identity.
5. Barr body.
6. Removal of TATTOO marks.
7. Objectives of doing autopsy.
8. Race determination.
9. Trial wounds.
10. Negative autopsy.

[LG 154]

APRIL 2015

Sub. Code: 2049

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING
PHYSICAL ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code : 202049

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Essay:

(2 x 10 = 20)

1. Discuss the role of Forensic pathologist in mass disaster.
2. Discuss the various factors that modify emptying of stomach. Explain their medicolegal importance.

II. Short Questions:

(8 x 5 = 40)

1. Cadaver donation.
2. Internal autopsy findings of asphyxia.
3. Stature from skeletal remains.
4. Osteometric indices in determination of race.
5. Preservation of biological materials for DNA profiling.
6. Circumstances influencing the onset and progression of putrefaction.
7. Characters of scar.
8. Endocrine causes of sudden death.

III. Reasoning Out:

(4 x 5 = 20)

1. Hyoid bone fracture can be seen in natural deaths.
2. Factors influencing floatation of a dead body on water.
3. Antemortem drowning and postmortem submersion.
4. Bruises are of lesser value than abrasions.

IV. Very Short Questions:

(10 x 2 = 20)

1. Lie detector.
2. Postural trauma callosities.
3. Exhibit bullet.
4. Brachial index.
5. Sydney shark case.
6. Spanish windlass technique.
7. Dermo epidermal burns.
8. Telephono.
9. Positive identification.
10. Determination of Non paternity.

[LI 154]

APRIL 2016

Sub. Code: 2049

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE**

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY
AND FORENSIC ODONTOLOGY**

Q.P. Code :202049

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 10 = 20)

1. Enumerate Intra cranial haemorrhages. Explain in details about Extradural haemorrhage.
2. Classify Asphyxial forms of death. Describe the Postmortem findings in a case of death due to Hanging.

II. Short Questions:

(8 x 5 = 40)

1. Rule of half year.
2. Exhumation in India.
3. Laboratory diagnosis of drowning.
4. Presumption of survivorship.
5. Mixed dentition.
6. Tandem bullet.
7. Punishment for rape.
8. Sexual perversion.

III. Reasoning Out:

(4 x 5 = 20)

1. Intact hymen is not a proof of virginity.
2. Negative chemical analysis report.
3. Giving evidence in the court of law not depends on age.
4. Delayed dentition.

IV. Very Short Questions:

(10 x 2 = 20)

1. Sodomy.
2. Cheiloscopy.
3. Cephalic index.
4. Concealed sex.
5. Medicolegal importance of age 18.
6. Section 44 IPC.
7. Simple injury.
8. Section 85 IPC.
9. Lateral Traction test.
10. Suspended animation.

[LJ 154]

OCTOBER 2016

Sub. Code: 2049

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE**

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY
AND FORENSIC ODONTOLOGY**

Q.P. Code :202049

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 10 = 20)

1. Describe the different methods for estimation of postmortem interval. Discuss their reliability.
2. How the status of ossification of bones determined? How is it useful for determination of the age of an individual?

II. Short Questions:

(8 x 5 = 40)

1. Age determination in adults over 25 years.
2. Ophthalmoscopic examination of retina in dead.
3. Homicidal hanging.
4. Deprivation techniques in torture.
5. Spontaneous subarachnoid Haemorrhage.
6. Surgical artefacts in firearm wounds.
7. Reflex neurogenic cardiovascular failure.
8. Diagnosis of death by lightning stroke.

III. Reasoning Out:

(4 x 5 = 20)

1. Time since delivery can be determined by size of uterus.
2. Adulterous wife is not considered as an abettor of offence in adultery.
3. Artefacts may be induced by autopsy surgeons.
4. Height determines pattern of injuries in accidental fall.

IV. Very Short Questions:

(10 x 2 = 20)

1. Arcus senilis.
2. Delayed bruising.
3. Assisted suicide.
4. Puppe's rule.
5. Sin of Gomorrah.
6. Cleavage lines of langer.
7. Exclusion of paternity.
8. Apparent death.
9. Race from teeth.
10. Preservation of maggots.

[LK 154]

MAY 2017

Sub. Code: 2049

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE**

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY
AND FORENSIC ODONTOLOGY**

Q.P. Code :202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 10 = 20)

1. Define and classify Anoxia. Discuss the Pathophysiology and Autopsy findings in a case on suffocation.
2. Discuss the methods to be followed while disposing the unknown unclaimed bodies from the hospital.

II. Short Questions: (8 x 5 = 40)

1. Stoelting polygraphs.
2. Kotz Warrism.
3. Lap belt syndrome.
4. Cruciate Laceration.
5. Ashley's Rule.
6. Asian flush syndrome.
7. Barb Burns.
8. Come out Bruise.

III. Reasoning Out: (4 x 5 = 20)

1. Role of medical and laboratory evidences in the investigation on case of Rape.
2. Role of Trichology in medico legal practice.
3. Importance of scene on crime visit.
4. Death in police custody.

IV. Very Short Questions: (10 x 2 = 20)

1. Embalmer's Eczema.
2. Dyadic suicide.
3. Borrowed servant Doctrine.
4. Albright syndrome.
5. Implosion.
6. Delhi Artificial Insemination (Human) Act.
7. Time of Flootation.
8. Track of Ammunition.
9. VAMPIRISM.
10. Vanishing Twin Syndrome.

**M.D. DEGREE EXAMINATION
BRANCH XIV – FORENSIC MEDICINE**

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY
AND FORENSIC ODONTOLOGY**

Q.P. Code :202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 10 = 20)

1. How will you establish the identity from the skeletonised remains and add a note on estimation of age from skull sutures?
2. Described the various factors in establishing time since death in a decomposed body.

II. Short Questions: (8 x 5 = 40)

1. Age and criminal responsibility.
2. Organ transplantation.
3. MTP.
4. Gustafson's method.
5. Estimation of age between 16-25 years.
6. Section 82 IPC.
7. Difference between Animal blood and Human blood.
8. Age changes in teeth.

III. Reasoning Out: (4 x 5 = 20)

1. A person under 16 years are not sentenced by any criminal court for any offence.
2. Presence of Hyoid bone with out fracture does not exclude manual strangulation.
3. Injury to the skull and brain occurs on the side opposite to the site of impact.
4. Negative autopsy.

IV. Very Short Questions: (10 x 2 = 20)

1. Pond fracture.
2. Epidural haemorrhage.
3. Foder's test.
4. Implied consent.
5. Section 376 IPC.
6. Adipocere.
7. Kennedy phenomenon.
8. Atavism.
9. Stomach bowel test.
10. Lynching.

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code :202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 15 = 30)

1. Discuss the Pathophysiology of cerebral compression and its legal significance.
2. Discuss the medicolegal significance of Pelvis.

II. Short notes: (10 x 5 = 50)

1. Age Related changes in pubic symphysis.
2. Rights of unborn child.
3. Stab wound.
4. Signs of live birth.
5. Sciatic notch index and its medicolegal significance.
6. Vagitus uterinus and its significance.
7. Cephalhaemotoma and its medicolegal importance.
8. Estimation of stature by long bones.
9. Impacted teeth.
10. S.114-A IEA.

III. Reasoning Out: (4 x 5 = 20)

1. Cadaveric spasm.
2. Contusions are lesser medicolegal importance than Abrasions.
3. Anterior and posterior ends of the brain are more vulnerable to injury.
4. Charge of infanticide cannot be sustained, If the age of the infant is 180 days of intrauterine life.

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code: 202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: **(2 x 15 = 30)**

1. Write in detail about various methods of assessing age in a living individual.
2. Write in detail about doctor as witness in evidence box.

II. Short notes: **(10 x 5 = 50)**

1. Hair as a medicolegal tool.
2. Classify bite marks and write about its use in crime detection.
3. Write a note about documentary evidences.
4. Mal practice litigation in various specialities of Medicine.
5. Inter sex.
6. Gustafsons method for age determination from teeth.
7. Tattoo mark as a tool of identification.
8. Write about factors modifying skeletal maturity.
9. Write a note in Virtopsy.
10. Causes of death from wounds.

III. Reasoning Out: **(4 x 5 = 20)**

1. Damages in cloth help in solving crime.
2. Casper's dictum helps in fixing time since death.
3. Ante mortem charring of bones simulates post mortem burning of body.
4. Bleeding around superior horn of thyroid cartilage as such is not a proof of ante mortem injury.

[LQ 154]

**AUGUST 2020
(MAY 2020 SESSION)**

Sub. Code: 2049

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code: 202049

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Describe various mechanisms involved in death by compression of neck. How would you account for death in judicial hanging?
2. Enumerate various types of fibers and draw structures of each. Role of fibers evidence in crime?

II. Short notes:

(10 x 5 = 50)

1. Medico-legal autopsy on skeletal remains.
2. Effacement of identity.
3. Determination of cause of death and time since death in a charred body.
4. Steele and Mc Kern's method of estimation of stature.
5. Bite marks analysis and its medico legal significance.
6. Recent advancement in estimation of time since death in skeletal remains.
7. Embalming in Medico-legal cases.
8. Dyadic deaths.
9. Non accidental injuries in children.
10. Write about age estimation above 21 years and write a note on Raman spectrometry.

III. Reasoning Out:

(4 x 5 = 20)

1. During and after commotio cordis can the victim still move around?
2. What are the psychologic characteristics of physical child-abuse perpetrators?
3. For quantitative estimation of poison we are using TLC method but there is any alternative method used by other forensic laboratory?
4. How do we extract gunshot residue GSR from ethanol swabs?

[MD 0721]

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 2049

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code: 202049

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Classify fingerprints. Describe various methods of developing fingerprints and comparison of fingerprints.
2. Describe various methods of estimation of postmortem interval.

II. Short notes:

(10 x 5 = 50)

1. Rule of twelve.
2. Pink teeth.
3. Casper dictum.
4. Postmortem changes in brain.
5. Cannelure.
6. Post immersion syndrome.
7. POSCO Act.
8. Crocodile flash burns.
9. Age estimation from pubic symphysis.
10. Blood grouping in tissues.

III. Reasoning Out:

(4 x 5 = 20)

1. Blood alcohol concentration does not always determine whether the person is under the influence of alcohol.
2. A person can run for some distance after sustaining complete injury to the carotid sheath.
3. Frothy secretions over the mouth does not mean drowning.
4. In a suspected case of air embolism, the cranial cavity is to be opened first.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 2049

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL ANTHROPOLOGY
AND FORENSIC ODONTOLOGY**

Q.P. Code: 202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: **(2 x 15 = 30)**

1. Define bore of a fire arm. How do you assess the range of firing by examining the entrance wound caused by shotgun.
2. Describe some of the anatomical features of Human skull which has got specific medico legal importance and state the evidenciary value of the examination.

II. Short notes: **(10 x 5 = 50)**

1. Age determination by bone in living.
2. Biometric methods of identification.
3. Factors determine the distribution of Suggilations.
4. Excited delirium syndrome.
5. Cattle prod – medico legal and ethical aspects.
6. Disseminated Intravascular Coagulation.
7. Trauma and disease.
8. Gun Shot Residues.
9. Factors modifying shape and size of bruises.
10. Histopathological examination and medico legal importance of Incised wound.

III. Reasoning Out: **(4 x 5 = 20)**

1. Crow's feet is a postmortem finding.
2. Hymen misinterpretation.
3. Sapphism in punishable.
4. Dismembered Limbs undergoes delayed putrefaction.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2049

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code: 202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 15 = 30)

1. Describe various methods of analysis of seminal fluid and its Medicolegal Importance.
2. Discuss various types of injuries sustained by bomb blast victim.

II. Short notes: (10 x 5 = 50)

1. Autopsy at Night.
2. Difference between Antemortem and Postmortem hanging.
3. Glaister keen rod.
4. Voyeurism and its legal aspects.
5. High risk autopsy.
6. Examination of a crime bullet.
7. Chelioscopy.
8. Medicolegal importance of sterility and impotence.
9. Sexual oralism.
10. Composite negligence.

III. Reasoning Out: (4 x 5 = 20)

1. Suspended animation could save lives.
2. Mumbalming and embalming.
3. Length of the stab wound is equal to the width of the knife.
4. Hypostasis is not always bluish purple in colour.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2049

M.D. DEGREE EXAMINATION

BRANCH XIV – FORENSIC MEDICINE

**PAPER III – FORENSIC MEDICINE INCLUDING PHYSICAL
ANTHROPOLOGY AND FORENSIC ODONTOLOGY**

Q.P. Code: 202049

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 15 = 30)

1. Describe various artefacts introduced between death and autopsy with its medicolegal significance.
2. Write in detail about ICMR guidelines for Human Research.

II. Short notes: (10 x 5 = 50)

1. Exhumation.
2. Garroting.
3. Raygat Test.
4. IPC relating to Criminal abortion.
5. Examination of clothes and ornaments in dead.
6. Tandem Bullet.
7. Age estimation using Gustafsons method.
8. Types of rape.
9. Frotteurism.
10. Conditions stimulating Rigor mortis.

III. Reasoning Out: (4 x 5 = 20)

1. A woman cannot be accused in a sexual offence.
2. Soot particles in upper respiratory tract is a surest sign of antemortem burning.
3. Smokeless gunpowder does not emit smoke during gunshot.
4. Dislocation of artificial joint is a grievous injury.
