



Dr.M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
(DEEMED TO BE UNIVERSITY)
Madhavayal, Chennai - 600 095, Tamil Nadu, India.
(An ISO 9001 : 2015 Certified Institution)



PART - 1



Answer Booklet Number

1402731

STUDENTS TO WRITE APPROPRIATE INFORMATION BELOW :

Degree : MBBS Question Booklet No : EH18
Branch : Medicine Subject Code : BMS 162 07
Subject : Forensic Medicine Semester : Non - Semester
No of Pages used : 23 Date : 31/3/21 Session : FM

A. Mangan
Signature of the Candidate

R. Sathya
Invigilator's Signature

31/3/21
Chief Superintendent's Signature /
Facsimile with date

Bundle Number



STUDENTS TO FILL THIS AREA FIRST

Write your Register Number and shade the Circle with Blue or Black Ballpoint Pen only.

REGISTER NUMBER

1	8	2	0	1	1	1	0	5	0	3	0
0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9



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QUESTION NUMBERS / MARKS

PART - 2

Total Marks (in Words) by the Evaluator :

Degree : MBBS Branch : Medicine
Subject : Forensic Medicine No. of pages used : 23
Semester : Non - Semester

Bundle Number

Evaluator's Name :

Evaluator's Signature :

Q.No.	Marks	Q.No.	Marks	Q.No.	Marks
1		11		21	
2		12		22	
3		13		23	
4		14		24	
5		15		25	
6		16		26	
7		17		27	
8		18		28	
9		19		29	
10		20		30	
Total					

TOTAL MARKS

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9



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QUESTION NUMBERS / MARKS

PART - 3

Total Marks (in Words) by the Evaluator :

Degree : MBBS Branch : Medicine
Subject : Forensic Medicine No. of pages used : 23
Semester : Non - Semester

Bundle Number

Evaluator's Name :

Evaluator's Signature :

Q.No.	Marks	Q.No.	Marks	Q.No.	Marks
1		11		21	
2		12		22	
3		13		23	
4		14		24	
5		15		25	
6		16		26	
7		17		27	
8		18		28	
9		19		29	
10		20		30	
Total					

TOTAL MARKS

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

INSTRUCTIONS TO THE CANDIDATES

1. No Additional sheets will be provided.
2. Check whether the Answer Book Number is clear & legible.
3. Check whether Answer Booklet consist of 40 / 10 pages.
4. Ensure whether the pages are stitched or stapled properly.
5. Fill in the particulars such as

For Example

- a) Degree : B.A./B.Sc./B.Com./B.Tech./B.Arch./B.Ed./B.D.S/M.A./M.Sc./
M.Com./M.Tech./M.Arch./M.D.S/M.Phil./MBA/MCA/MBBS/BPT/
B.Pharm/D.Pharm, etc
- b) Branch : CSE / ECE / F.D / V.C / Ind. Bio - Tech. / Mech. / Prod. / Nursing / etc.
- c) Semester : I / II / III / IV / V / VI / VII / VIII / IX / X
- d) Subject Code : As per the University
- e) Subject : Name of the Subject
- f) Question Paper No. : Given in the Question Book
- g) Date : The date on which the exam is attended
- h) Session : Mention the exam is conducted during Fore Noon or After Noon (FN/AN)
- i) No. of pages : Total No. of pages used in the Answer Book for writing the exam.

Note : Do not write Name anywhere on the Answer Sheet.
Do not write your Register Number excepting the space provided.

6. Use both side of the Answer Book for writing.
7. Answers must be written in blue / black ink only.
8. Do not write in the margin.
9. Possession of ID card & Exam Hall Ticket is mandatory and has to be produced on demand.
10. Log Books, Reference Tables, hand Books, etc., must be attested by the Dept. HOD / Chief Superintendent / Hall Superintendent.
11. Borrowing is strictly prohibited.
12. Candidates are not allowed to enter the examinations hall 30 minutes after commencement of the exam and should not leave the hall during first 30 minutes.
13. Distinguishing Mark on the Answer Sheet for identifications is prohibited & punishable.
14. Possession of any incriminating material like Digital Memory Devices such as Cell Phones, Pagers, Programmable Calculators, etc and Malpractice of any nature is punishable as per rules.

Medical Termination of Pregnancy Act

- The act is introduced to legalise and ~~liberized~~^{liberalized} abortion.
- To ~~prevent~~^{prevent} complication of abortion by doing of non-specialized persons, under unaseptic condition.

Indications.

- ① Therapeutic - When the pregnancy endangers the life of a women, eg, ovarian and cervical cancer, toxemia of pregnancy.
- ② Eugenic - Foreseen complication of structural and functional abnormalities of baby. This it is indicated.
mothers having infection like.

① Viral hepatitis

② Rubella

③ Toxoplasma ~~goe~~

* Herpes simplex virus

* HIV

• Taking Teratogenic drugs Thalidomide, cortisone, antimetabolic drugs.

③ Humanitarian.

• Rape

• pregnancy of an insane woman.

④ Social

Failure of Contraceptive.

MTC is conducted by.

* It is done by a registered ^{medical practitioner} (post graduate doctor or person with degree in diploma)

* An Intern who have done atleast 6 month internship.

* Post graduate in diploma of gynaecologist and obstetric.
pregnancy extention.

Applied only for 20 weeks of gestation.

* Below 20 weeks of gestation can be done by one doctor only.

* Above 20 weeks of gestation two

doctors are required.

* In case of emergency, only one doctor can decide the abortion.

Consent.

• A Female above 18 years of age can give

consent for Termination of pregnancy.

• Consent from the husband is not required.

Medicolegal Importance.

• To lower the risk of criminal abortion which lead to disease and death of the woman.

• Criminal abortion

• Abortion done without the consent of the woman.
• not indicating.

• The doctor who perform criminal abortion without indicating.

is an infamous conduct.

• Criminal abortion is an offence.

• Other method to cause abortion like.

Drug which increase contraction of uterus.

① Ergometrine, quinine.

Irritant - Lead.

So when criminal abortion is done chemical analysis confirms the presence of chemical compound.

Q ①

Define Hanging.

Hanging is a type of asphyxial death caused by constriction of the neck with Ligature Suspension of the body.

Types of Hanging.

a) Based on the position of the knot.

- ① Typical hanging
- ② Atypical hanging.

b) Based on Suspension.

① Complete hanging.

② Partial hanging.

c) Based on position.

partial hanging can be

① kneeling.

* Standing.

* Lying.

Other Medicolegal Hanging.

① Suicidal hanging

② Homicidal hanging

③ Judicial hanging.

④ Accidental hanging.

⑤ Autoerotic hanging.

Post mortem findings.

① Neck.

① oblique ligature mark.
characteristic pressure abrasion

② Above the level of Thyroid
cartilage.

③ fracture of C₂-C₃ cervical vertebrae
in case of Judicial hanging
(Hangman hanging).

* Fracture of the hyoid bone.

Face.

- congested
- protrusion of tongue.
- Dribbling of saliva.
- petechial haemorrhage.
- Le - facii sympathique.

Eye.

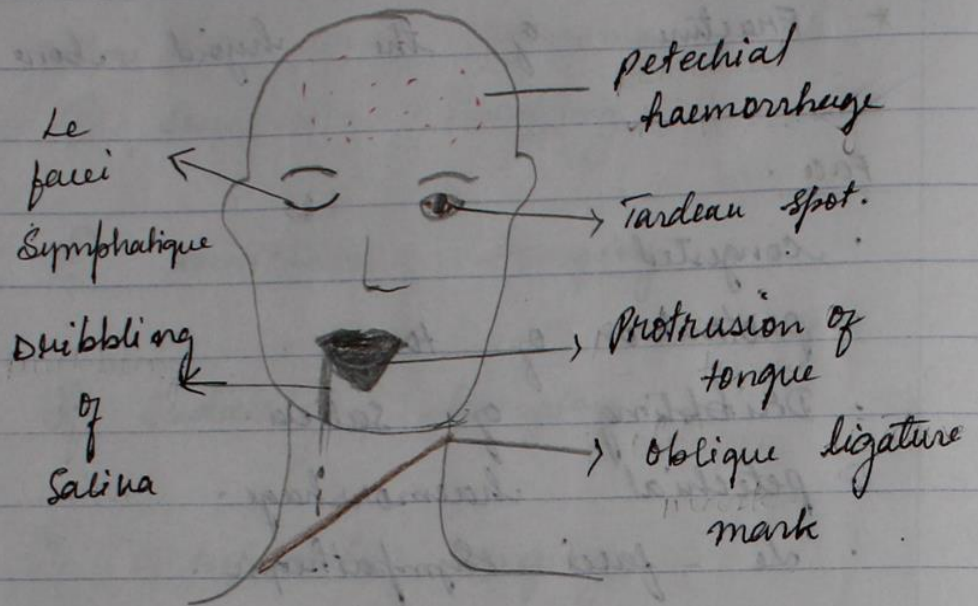
- Tardieu sign.
- Subconjunctival haemorrhage.

post-mortem staining

- Glove and stocking
- Appears on the lower limb, on the feet and fingers and hand.

cadaveric spasm - seen.

Other injuries - contusion, bruise may be seen in homicidal hanging.



① Typical Hanging.

It is a type of Hanging where the knot lies at the mid-occiput.

② Atypical Hanging.

The knot can be in any other position.

③ complete Hanging.

This is a type of hanging where the body is completely suspended and there is free from any contact.

Eg. Judicially Hanging.

partial
Incomplete Hanging.

The body is not completely suspended and is touching the chair or supportive material.

- Can be of any position like

- kneeling, lying and standing.

- It can be suicidal, homicidal or accidental hanging.

Suicidal Hanging.

- Suicidal note is usually found

- The person is sane but loose of control of himself either by depression or ~~in~~ not interest in living anymore.

Homicidal Hanging.

The person can be strangled first or hanging directly.

All sign of Hanging might observe
or not observe.

Judiciary Hanging.

Hanging of the criminal by order
of the court.

- It is a typical hanging.

- If a pregnant women is subjected to death, the magistrate can commute the death sentence to two imprisonment.

Autoerotic Hanging.

~~Hanging himself~~ A person hang himself to satisfy sexual gratification. Dead may occur and can be seen

① Tying himself in a rope with disturbed room.

② May his suspension.

Feature	Ante mortem Hanging	Post - mortem Hanging
① Ligature mark.	present	present.
② protrusion of tongue	present	absent.
② Drobbling of saliva	present	absent.
③ Le - facii sympathique	Present	absent.
④ Tardieu spot	present	absent.
⑤ other injuries at other site	absent present	present

Medicolegal Importance.

- Indiciary hanging.
- Indicate ~~suicide~~ or homicide, murder.
- If the person is carried away after hanging, sign can be identified.

Ans 5.

Plumbism.

Lead poisoning is also called Plumbism or Satirism.

Lead poisoning is an occupational hazardous compound.

Cause. People who work in plumbing, or painting, pigment, Batteries makers.

cosmetic, vermilion.

Lead is also used as medicine in Hiplanic and ayurvedic medicine.

Lead is a cumulative compound

once enter into the body it stay for long, and repetitive exposure can lead to poisoning.

Action.

Lead combine with Sulf-hydryl group of mitochondria enzyme and cause

uncoupling of oxidative phosphorylation,
enhance oxidative stress and apoptosis.

Clinical manifestation.

- Affect Heme Synthesis
- STT and osteoblast.
- Epigastric pain, Vomiting, Nausea, gastric irritation.
- ^{Blue} Lead line on gums and teeth
- Lead palsy.
- Anaemia
- Thrombocytopenia, granulocytopenia.
- Lead lines on metaphysis on long bone is seen when observed in X-ray.
- Circum-oral
- Encephalopathy
- Low IQ in children.

~~post~~ Treatment

① DMSA or Dimercaprol or EDTA

② Gastric lavage

~~Diagn~~ Activated charcoal.

Maintain airway.

ventilation.

IV - fluid.

Diagnosis

• Increase blood lead concentration

• X-ray.

• Basophilic stippling, Anemia

post-mortem appearance.

• Non-specific finding.

• Blue-line on gum.

• petechial haemorrhage in the Endocardium.

Medicolegal important.

Acti. occupational poisoning.

• Medicinal poisoning.

• Cosmetic poisoning.

Ans 3

Features.Coup injuriesContrecoup injuries

①

Site

occurs at the
site of contactoccurs at the
opposite site
of contact.

②

Cause

Fixed head
with forceful
(action) impact.Vacuum and
suction force.

③

Injury &

occurs at the
site of contact
laceration, abrasion.
contusion.Does not
occur.

④

Fixed
Head

occurs

does not
occur in
fixed head.

⑤

Force.

More force
is usedLess force
is used to
cause.

⑥

Falling /
Road Accident
↓
Traffic

Less

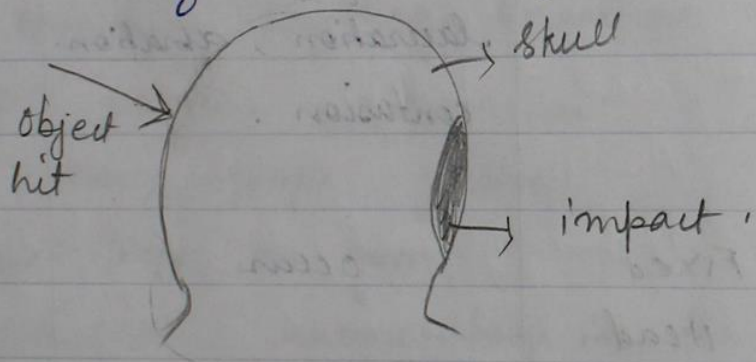
more.

coup - It caused by blunt object or accidentally hit a blunt object forcefully.

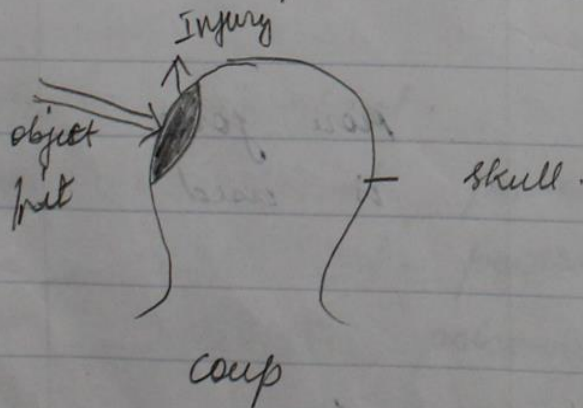
The head is fixed.

Injury - contusion and bruise may be seen, laceration at the site of contact.

Counter coup - occur away from the site of impact occur due to present of suction force.



Counter coup.



medicolegal important - Indicate manner of injury.

Ans 6

Sex chromatin.

• Sex chromatin is the inactive X chromosome.

• Present in all nucleated cells.

• More seen in female.

• Buccal smear is usually done to identify.

• Sex chromatin = Number of X chromosome - 1

Medicolegal important.

• Help in identification of sex.

• presence mostly in female.

Ans 7

Incest.

• Incest mean people who are related by blood.

• Incest marriage can lead

to baby abnormalities in

physical or functional due

to either incompatibility or some defect.

• In India, incest marriage is not an offence.

Medicolegal Important.

Incest marriage may lead to physical or functional deformity of the baby born on incest parents, due to genetic defects.

Ans 8

Mc Naughton's Rule.

Every person is considered to sane and responsible for his own doing. Unless proved that at the time of a doing a crime the person does not know or unconscious. The person is not responsible for his crime when done in unconsciousness.

Medicolegal Important.

. To help in proving a sane and an insane person.

Ans 9 Contraindication of stomach wash.

- ① Corrosive poisoning.
- ② Advance pregnancy.
- ③ Hypothermia
- ④ Coma.
- ⑤ Unconsciousness.
- ⑥ Esophageal varices.

Medicolegal Importance.

• Gastric lavage is used to wash the poison from the stomach.

• It can be used for arsenic, organophosphorus poisoning.

• ~~Edward~~ Ryle's tube is used in children.

• Ewald tube in adult.

Ans 2

Superimposition.

Superimposition is the method of identification by using the skull and compared to the picture of the deceased. The skull is inclined in the same position as that of the picture.

Area
~~per~~ point to be marked

- Teeth.
- Lower jaw.
- Lower border of nose.
- Angle of mouth.
- Zygomas.
- Ocular socket near the canthus.

• Nasion •

• External auditory meatus •

knowing the superimposition
help in corroborative finding but
not confirmatory finding.

• It helps in exclusion rather
than inclusion

Medicolegal Importance.

• Help in identification of race.

~~Sex~~ • Identifying the teeth
help in finding the age of
the person.

Q. 10

Forensic Entomology.

The study of ^{action of} insects, flies which decompose the body after death.

Eg. Maggot.

- Maggot helps in putrefaction.
- They present 3 or 4 days after the person dies.
- Flies are absent in mummification of body.

Medicolegal Importance.

- Study of flies after the death of a person help in estimating the time of death.

Formic entomology

Study of insects, their habits, etc.

the body of the insect

eg. of the body

the body of the insect

the body of the insect

the body of the insect

the body of the insect

the body of the insect

the body of the insect

the body of the insect

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the body of the insect

