



SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, MAY 2006
FORENSIC MEDICINE AND TOXICOLOGY

Time : One Hour and a Half

Maximum : 32 Marks

*Answer Sections A-II and B in separate answer-books.
 Draw diagrams wherever necessary.*

Section A-II

III. Draw diagrams of the following :

- (a) Wound produced by a four faceted jumper with sharp margins. (For manual drilling of wall with hammer).
- (b) Wound of entry produced by rifled firearm beyond 18".

(2 × 1 = 2 marks)

IV. Give short answers :

- (a) Suspended animation.
- (b) Vicarious liability.
- (c) Informed consent.
- (d) Delusion.

(4 × 1 = 4 marks)

V. Write short notes on :

- (a) Cerebral concussion.
- (b) Indications for doing stomach wash and the procedure adopted.
- (c) Healing of an abrasion.

(3 × 2 = 6 marks)

Section B

VI. Read the following summary with care and answer the following questions :—

On 13/02/2006 at about 0600 hrs. the dead body of a T.M.H. Kutty aged about 26 years was found by the side of Kottayam-Kumili road in a prone position beneath a jack fruit tree. A branch was seen broken close to the main trunk. Scene examination with subsequent autopsy was made by Police surgeon from MC, Kottayam on 14/02/2006 between 11hrs and 14hrs.

A cotton double dhoti was seen folded irregularly and thrown 200 meters away from the dead body. Disturbance to the small herbal vegetations was seen all round the tree with some dried blood stained marks.

Body was that of a well nourished and well built adult male of height 185cms. Body was in a state of decomposition. Face bloated up. Blood stained fluid coming through mouth and nostrils. Cuticle started to peel off from the face, arms and back of chest. Salivary dribble marks having a length of 10 cms. were seen on the front of left side of chest and abdomen. Abdomen distended and gas rigidity established at the elbows and knees. Teeth and scalp hairs firm.

Turn over

Injuries (antemortem)

- 1 Pressure abrasion 30×2.4 cms. was seen over the front and sides of neck with a discontinuity of 6.5 cms over the back of neck. Bloodless field dissection of neck revealed normal neck structures.
- 2 Liver laceration $26 \times 15 \times 10$ cm. involving right and left lobes. The abdominal cavity contained 2.75 liters of blood with 1kg of blood clot.

Other findings : Stomach was full with partly digested meat and rice particles with strong spirituous smell. All other organs were normal except for early decomposition changes.

Questions :

- 1 Describe the mechanism of production of injuries 1 and 2.
- 2 What is your opinion as to cause of death ?
- 3 What is the confirmatory test for salivary stain ?
- 4 What is the approximate time since death from postmortem changes and gastric contents ?
- 5 What is the Medico-Legal significance of fiber test in a case of Hanging ?

(3 + 2 + 2 + 2 + 1 = 10 marks)

VII. Write short answers :

- (a) Postmortem diagnosis of raised intracranial tension.
- (b) Spalding's sign.
- (c) Bumper fracture.
- (d) Mercuria lentis.

(4 × 1 = 4 marks)

VIII. Write short notes on :

- (a) Sec. 320 IPC.
- (b) Sec. 377 IPC.
- (c) Sec. 84 IPC.

(3 × 2 = 6 marks)