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EXAMINATION DECEMBER 2024
BACHELOR OF MEDICINE AND BACHELOR OF SURGERY
(THIRD PART-1)
FORENSIC MEDICINE & TOXICOLOGY (NEW)
(EFFECTIVE FROM 2023-24) - LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 100]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (THIRD PART-1)**
 - b. Name of the Subject : **FORENSIC MEDICINE & TOXICOLOGY (NEW) (EFFECTIVE FROM 2023-24) - LEVEL 1**
 - c. Subject Code No : **2406000103010501**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. There are two sections in this question paper. Each section carries 50 marks.
6. Answer both the sections in separate answer sheets.
7. Right side numbers denotes maximum marks of the questions.
8. Write answers according to the question only. Writing anything which is not asked won't be counted for marks.

Seat No:

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Student's Signature

Section 1

- Q.1** Define Injury. Classify Mechanical Injuries. Write in detail about the type, characteristics and medico-legal importance of Contusions. **10**
- Q.2** Case based scenario/ Applied Questions. (Write any 2 out of 3) **12**
- 1) A 35 yrs old female admitted in Casualty following head injury due to accidental fall from height. After 5 days of treatments, she was declared brainstem dead. The Patient's next of kin were counseled about her organ donations and body donation. In present scenario.
 - a. Define Somatic Death, Molecular Death & Brainstem Death. **3**
 - b. Who can certify a patient as brainstem dead? **1**
 - c. Write in brief about 'Cadaveric Donor' and 'Beating Heart Donor'. **2**

- 2) Dead body of 25 yrs old male recovered from a farm and brought by police for post mortem examination. Autopsy examination reveals that a complete transverse near round shaped ligature mark was there in neck with cyanosis, facial congestions and petechial hemorrhages. No salivary stains over cloths. Internally there was a fracture of the hyoid bone and thyroid cartilage in the neck.
- Mention most probable diagnosis in this case. Give justifications for your answer. 2
 - What samples would you like to preserve in this case and for which tests? 2
 - Classify deaths due to mechanical asphyxia? 2
- 3) Dead body a new born baby, with intact umbilical cord and placenta attached, covered in a newspaper was found in a roadside garbage bin. It has been forwarded to you for postmortem examination. In this case,
- What are the objectives of post mortem examination in this case? 2
 - What findings over the body would suggest live birth? 4

Q.3 Short notes (Write any 4 out of 5) 16

- Early Putrefaction
- Medicolegal importance of 18yrs of age *
- Defense Wounds
- Dying Declaration
- Medicolegal Importance of Blood Grouping

Q.4 Give answer in two or three sentences. (Write any 6 out of 7) 12

- Types of Gun Powder
- Conduct Money
- Quickening in pregnancy
- Emasculation
- Rule of Nine
- Catamite
- Virtual autopsy

Section 2

- Q.1 Classify Poisons with examples. Describe about clinical features, fatal dose-fatal period and treatment of Methanol Poisoning. 10**

Q.2 Case based scenario/ Applied Questions. (Write any 2 out of 3)

12

1) A surgeon was called for an emergency appendectomy surgery by a nurse on duty. The surgeon was in middle of a drinking party and refused. But the nurse on call insisted that no other surgeon nearby is available and the patient was getting bad. The surgeon attends the patient and performs laparoscopic surgery under influence of alcohol. The surgery gone well but patient and relatives shocked to know about it later.

- a. Is this Medical Negligence or Professional Misconduct? Give other 4 examples of both. **4+1**
- b. Describe Penal Erasure. **1**

2) A 55yrs old farmer brought to a Primary Health Centre with alleged history of a snake bite 30 mins ago. On examination, the patient was drowsy, breathlessness, cyanosis, ataxic gait, difficulty in speech and swallowing. Two tiny puncture wounds 1cm apart noted on back of left knee with minimal local reactions.

- a. Mention most probable diagnosis. Give reasons for your answer. **1+2**
- b. Describe primary treatment on field for such case. **2**
- c. Describe investigations to monitor at hospital in this case. **1**

3) A 52 yrs old female brought by her husband to psychiatric OPD with c/o insomnia & having constant doubts of infidelity over her husband even though he has no any such affairs. She also has doubts that her neighbor lady is influencing her thoughts constantly with some electronic device even when she is out of station.

- a. Diagnose this mental illness and describe various types of it. **4**
- b. If this patient attacks her neighbor lady under unsound mind condition, which law will decide criminal liability of the patient for the offence? Describe it. **2**

Q.3 Short notes (Write any 4 out of 5)

16

- 1) Treatment of Strychnos Nux Vomica poisoning
- 2) Describe 'Res Ipsa Loquitor' with examples
- 3) Signs & Symptoms of Cannabis Intoxication
- 4) Viscera Preservation in poisoning cases
- 5) NDPS Act 1985

Q.4 Answer in two or three sentences (Write any 6 out of 7)

12

- 1) Lead Palsy
- 2) Body Packer Syndrome
- 3) Chromolachryorrhoea
- 4) Lucid Interval
- 5) Sewer Gas
- 6) Automatism
- 7) Implied Consent
