

POST GRADUATE EXAMINATION, JANUARY-2025
MD - EMERGENCY MEDICINE
(PAPER – I)

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
 Illustrate with suitable diagrams wherever necessary.

Long essay type questions:

Q.1. What is hazard vulnerability Analysis? Discuss the basic components of a hospital comprehensive disaster response planning process. Describe how to manage a sudden surge of fifteen victims arriving in your ED at 9.00pm following a bus accident. (20)

Q.2. Discuss the common indicators, pharmacological agents, preparation, monitoring requirements, recovery assessment and discharge safety guidelines for your patients undergoing procedural “Sedation Analgesia” in your ED? (20)

Q.3. Describe briefly: (3x10=30)

- a. Examination of the abdomen in a patient presenting with acute abdominal pain.
- b. Effective emergency team leadership and principals of teamwork
- c. Anterior shoulder dislocation diagnosis and management in ED

Q.4. Write short notes on: (5x6=30)

- a. Oxygen Dissociation Curve and clinical implications.
- b. Compartment syndrome of the leg diagnosis and management.
- c. Inter-hospital transfer protocols and its advantages.
- d. Enoxaparin indication, contraindications and complications.
- e. Intimate partner violence evaluation and management in ED.

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(PAPER – II)

[Time allotted: Three hours]**[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams wherever necessary.

Long essay type questions:

- Q.1.** Discuss the pathophysiology, clinical features and management of a patient presenting to the ER in status arthmaticus. (20)
- Q.2.** A young man, 30 yrs of age, who is an IV drug addict presents to ED with high degree fever since 8 days with chills and rigors. He has received Inj CEFTRIAXONE 2 gm once daily elsewhere for 5 days but with no improvement. His vitals are as follows (20)
- HR – 130/min
BP – 100/70mmhg
IVP – Elevated
Chest is clear. He has bilateral clubbing which is painful, spleen is palpable & tender
- Write your diagnosis
 - How will you manage the case?
 - Write the criteria for the diagnosis of the above condition.
- Q.3. Describe briefly:** (3 x 10 = 30)
- What is Wells score and how will you use it to plan specific diagnostic testing for venous thromboembolism?
 - Acute hepatic failure
 - Complications of haemodialysis
- Q.4. Write short notes on:** (5 x 6 = 30)
- Loop diuretics
 - Necrotizing fasciitis
 - Drug treatment options for migraine headache
 - Diagnosis and treatment of Digoxin toxicity?
 - Heat stroke

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(PAPER III)

[Time allotted: Three hours]**[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams wherever necessary.

- Q.1.** 26-year-old male presents with pain in the scrotum for the past two hours. Differentials, investigations and management. What is TWIST score. **(20)**
- Q.2.** 38-year-old female was brought to the ER following a fall from the second-floor balcony of her building. She is conscious and oriented but says that she has severe pain in her hips. On examination you find that pelvic compression test is positive. Classify pelvic fractures. Management of hemodynamically unstable pelvic fractures. **(20)**
- Q.3. Describe briefly:** **(3x10=30)**
- a. Paraphimosis management in the ER
 - b. Clinical tests for shoulder dislocation. Mention four methods for reduction of shoulder dislocation and elaborate one method in detail.
 - c. Monro- Kellie doctrine and management of raised ICP following trauma
- Q.4. Write short notes on:** **(5x6=30)**
- a. Orbital blowout fracture
 - b. Evaluation of acute painful swollen ankle joint in the ED
 - c. Brown Sequard syndrome
 - d. Zones of neck and its significance in trauma
 - e. Massive transfusion protocol

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(PAPER – IV)

[Time allotted: Three hours]**[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams wherever necessary.

- Q.1.** A 17-year old child was brought to the emergency with multiple episodes of loose motions and vomiting. He is drowsy with capillary refill time of 5 seconds. Describe your assessment of severity of dehydration and management of this case in the Emergency Department **(20)**
- Q.2.** A 48-year old male was brought to emergency with wake-up stroke. Describe the recent guidelines for evaluation and management of wake-up stroke. **(20)**
- Q.3. Describe briefly:** **(3x10=30)**
- a. Describe anatomic considerations in the pediatric airway. Discuss potential implications and airway maneuvers.
 - b. Describe the major changes made in the Surviving Sepsis Campaign Guideline 2021.
 - c. Describe the concept of “One Stop Centre”.
- Q.4. Write short notes on:** **(5x6=30)**
- a. Components of AF-CARE
 - b. PATCH TRAUMA Trial
 - c. Forrest Plot
 - d. TIMELESS vs. TRACE 3 TRIAL
 - e. EMTALA Act
