

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
PAPER II - CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : Three hours

Maximum : 100 Marks

I. Elaborate on :

(2 x 20 = 40)

1. A 30 year old farmer is found unconscious in his room and brought to the emergency room (ER) by his family. They have also brought an empty bottle of pesticide with them. On arrival to the ER he is found to be covered in vomitus and is agitated. He is sweating, his pupils are constricted and his pulse rate is 40/min with a blood pressure of 160/90 mm Hg.
 - a) List the possible chemicals he could have consumed based on the toxidrome provided.
 - b) Describe the immediate general care you would provide to this patient.
 - c) Discuss the pathophysiology and the specific treatment for organophosphorus poisoning.

2. A 50 year old gentleman with chronic liver disease with cirrhosis is brought to the intensive care unit (ICU) in a drowsy and confused state. His family tells that he has been binge drinking for the previous three days with very little food intake.
 - a) List the differential diagnosis to be considered for his altered mental status.
 - b) Discuss the precipitating factors, pathophysiology, grading, management and prognosis of patients with cirrhosis admitted to the ICU with hepatic encephalopathy.

II. Write notes on:

(10 x 6 = 60)

1. Discuss the role of mechanical thrombectomy in acute ischemic stroke.
2. What is targeted temperature management? How is it done and what are its clinical applications?
3. What is damage control resuscitation? What are its components and how are they done?
4. Discuss medical management of raised intra cranial pressure (ICP).
5. Describe the non ventilatory management of a patient with ARDS.
6. What are the indications for use of non invasive ventilation (NIV)? Discuss when NIV is indicated in a patient with COPD exacerbation and how it is set up.
7. Enlist the various methods used to assess preload responsiveness and describe how a "passive leg rising" (PLR) test is done and interpreted.
8. Discuss the management of NSTEMI in the intensive care unit.
9. Discuss the management of hyperkalemia.
10. Elaborate the steps you would take to wean a patient off a ventilator?