

CRITICAL CARE MEDICINE

THEORY PAPER

Time : 3 hours

Max. Marks : 100

Attempt all questions in order.

Each question carries 10 marks.

Write short notes on:

1. What are the causes of sudden hypoxia in a mechanically ventilated patient? How will you proceed with bedside evaluation & management? 3+7
2. What is lung protective ventilation in ARDS? What are the management strategies for refractory hypoxemia in ARDS? 2+8
3. Describe the differential diagnosis and ICU management of a patient presenting with acute flaccid paralysis. 10
4. What are the key modifications in Sepsis 3.0 guidelines over Sepsis 2.0 guidelines? What are the methods of antibiotic de-escalation in sepsis? 6+4
5. What surveillance measures are necessary in an ICU during a pandemic outbreak? Discuss the pros and cons of SOLIDARITY trial in the context of remdesivir use in COVID-19. 5+5
6. Describe the diagnostic workup and clinical management of a 27 year old term primigravida who is deeply icteric and presents with generalized convulsions. 5+5
7. A 25-year-old farmer is brought in an unconscious state after suspected ingestion of pesticides with suicidal intent. Describe the plan of workout, diagnosis & definitive management. 10
8. What are the indications of thrombolysis in acute stroke? What are the methods of neuroprotection in patients admitted with traumatic brain injury (TBI)? 3+7
9. Compare and contrast the differences between ECMO and ECCOR. What are the indications of ECMO therapy in ARDS with regard to CESAR and EOLIA trials? 4+6
10. What is "End of life (EOL)" care in ICU and how is it different from "euthanasia"? What are the main sources of ICU conflict and what are the legal safeguards of critical care physicians in such conflicts? 3+7
