

- LONG ESSAY**
1. What do the terms "microbiome" and "metagenomics" mean? Write briefly about lung microbiome in health and disease.
  2. Define, enumerate the markers and treatment options for sepsis-induced immune paralysis. What are the components of the 'Surviving Sepsis' campaign?
  3. Write a commentary on the various methods and indices used to assess suitability for weaning from mechanical ventilation.
  4. Discuss about the recent advances in diagnostic Bronchoscopy.
  5. Draw a schematic pathway for targeted therapy in non-small cell lung cancer. Describe immunotherapy in NSCLC.
  6. What are the types, indications and contraindications for ECMO? Write in brief about the components of ECMO.
  7. Define ARDS. Enumerate ventilator strategies used to treat ARDS.
  8. Role of biomarkers and newer therapeutic agents in bronchial asthma.
  9. Write the classification of Pulmonary hypertension. What are the newer therapies available for primary Pulmonary hypertension?
  10. Define a case of vaping induced lung injury. what are the radiological features, clinical manifestations and treatment of 'EVALI' (E-cigarette/vaping associated lung injury)

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