



**RAE-9045**  
**M. D. Examination**  
**March - 2019**  
**Anaesthesiology : Paper - 1**

Seat No. \_\_\_\_\_

Time : Hours]

[Total Marks : 100

- 1 Describe anatomy of Internal Jugular vein and subclavian veins. Outline indications, technique and complications of cannulation of internal jugular vein. Discuss interpretation of central venous pressure. **5+10+5**
  
- 2 Define normal lung volumes and capacities. What is clinical importance of anatomical and physiological dead space ? **10+10**
  
- 3 Describe functional anatomy, pharmacology and pathology of autonomic nervous system. Discuss drugs acting on autonomic nervous system. **10+10**
  
- 4 Short notes : (any four) **40**
  - (a) Intracranial pressure
  - (b) Oxygen flux
  - (c) Randomization and blinding in clinical research
  - (d) Stroke volume variations.
  - (e) Neuromuscular monitoring
  - (f) Carbonic acid-bicarb buffering system.