## **RESPIRATORY DISEASES**

## PAPER - IV

Time :

: 3 hours

RPD/D/10/42/IV

Max. Marks: 100

Attempt all question in order. Each question carries 10 marks.

## Write short notes on:

Oxygen uptake, transport and utilization in critically ill patients.

Clinical applications of spirometry.

Role of ultrasonography in respiratory diseases.

- 4. What are aerosols? Discuss the properties of aerosols that are important in inhalational therapy.
- 5. Define respiratory failure. What are the types of respiratory failures and list important causes and differentiating features for each?
- 6. Contraindications to use of non-invasive positive pressure ventilation (NIPPV).
- 7. Indications, contraindications and complications of medical thoracoscopy.
- 8. What is surfactant? Discuss its clinical utility.
  - 9) Diagnosis and treatment of metabolic alkalosis.
  - 10. Anatomical and physiological changes in the lungs in pregnant women.