Reg. No.	100			

MANIPAL UNIVERSITY

FIRST YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: BASIC SCIENCES (SPECIALTY: ADULT CARDIO RESPIRATORY CARE) (2013 SCHEME)

Tuesday, December 15, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

∠ Long notes:

1. Explain in detail the cardiopulmonary events at birth.

(16 marks)

2. Describe the innervation of the lung and the thoracic musculature.

(16 marks)

- 3. Short notes:
- 3A. Work of breathing
- 3B. Metabolic acidosis
- 3C. Adrenergic bronchodilators
- 3D. Functional anatomy of the vascular system
- 3E. Airway resistance
- 3F. Carbon dioxide transport

 $(8 \text{ marks} \times 6 = 48 \text{ marks})$

Reg. No.	
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MANIPAL UNIVERSITY

FIRST YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION - DECEMBER 2015

SUBJECT: ADVANCED RESPIRATORY THERAPY SCIENCE I

(SPECIALIZATION: ADULT CARDIO RESPIRATORY CARE) (NR - 2013 SCHEME)

Wednesday, December 16, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

∠ Long notes:

1. Explain the effects of mechanical ventilation on ventilation.

(16 marks)

2. What is PEEP and CPAP? What are the indications, contraindication and pulmonary effects of PEEP?

(16 marks)

- 3. Short notes:
- 3A. Non-invasive ventilation
- 3B. Volume control ventilation
- 3C. Methods of weaning
- 3D. Humidification and inspired gas temperature
- 3E. Work of breathing
- 3F. Airway management

 $(8 \text{ marks} \times 6 = 48 \text{ marks})$

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MANIPAL UNIVERSITY

FIRST YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: CRITICAL CARE MEDICINE – I (SPECIALTY: ADULT CARDIO RESPIRATORY CARE) (2013 SCHEME)

Thursday, December 17, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

∠ Long notes:

1. Describe Aetiology, clinical features, diagnosis and ICU management of tetanus?

(2+4+2+8 = 16 marks)

2. Describe the causes, and current treatment of ARDS. Write a note on berlin definition of ARDS?

(4+8+4 = 16 marks)

- 3. Short notes:
- 3A. Silicosis
- 3B. Leptospirosis
- 3C. Pulmonary Tuberculosis
- 3D. Management of acute severe asthma
- 3E. Aspiration syndromes
- 3F. Metabolic acidosis

 $(8 \text{ marks} \times 6 = 48 \text{ marks})$