

Reg. No.

**MANIPAL UNIVERSITY**

**SECOND YEAR M.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2016**

**SUBJECT: ADVANCED RESPIRATORY SCIENCE – II**  
(SPECIALIZATION: ADULT CARDIO RESPIRATORY CARE)  
(2013 BATCH)

Thursday, December 15, 2016

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

**☞ Draw diagram where necessary.**

1. Discuss the physiological effects, indications and contraindication of hyperbaric oxygen therapy.

(6+4+6 = 16 marks)

2. Define pulmonary function testing. Discuss about helium dilution and diffusing capacity.

(2+7+7 = 16 marks)

3. **Short notes:**

3A. Positive end expiratory pressure

3B. Complication of positive pressure ventilation on intracranial pressure and renal failure

3C. Indirect calorimetry

3D. Adaptive support ventilation

3E. Common alarms setting

3F. Extracorporeal gas exchange technique

(8 marks × 6 = 48 marks)



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**SECOND YEAR M.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2016**

**SUBJECT: EMERGENCY MEDICAL SERVICES  
(SPECIALTY: ADULT CARDIO RESPIRATORY CARE)  
(2013 BATCH)**

Friday, December 16, 2016

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

**☞ Draw diagrams wherever necessary.**

1. Discuss the causes and management of heart block. Add a note on transcutaneous pacing?  
(8+8 = 16 marks)
  
  2. Describe the management of a victim with difficult airway?  
(16 marks)
  
  3. **Write short note on:**
    - 3A. Sodium bicarbonate
    - 3B. Pulseless electrical activity
    - 3C. Atropine
    - 3D. CPR in pregnancy
    - 3E. Return of spontaneous circulation
    - 3F. Defibrillation
- (8 marks × 6 = 48 marks)



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SECOND YEAR M.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2016

SUBJECT: CRITICAL CARE MEDICINE - II  
(SPECIALTY: ADULT CARDIO RESPIRATORY CARE)  
(2013 BATCH)

Saturday, December 17, 2016

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. Describe the etiology and management of infective endocarditis.  
(8+8 = 16 marks)
2. Discuss the types and management of heart block.  
(3+13 = 16 marks)
3. **Write short notes on:**
  - 3A. Percutaneous Angioplasty
  - 3B. Cardiac Pacemakers
  - 3C. Ventricular Fibrillation and Tachycardia
  - 3D. Mitral Stenosis
  - 3E. Hypertensive Crisis
  - 3F. Cardiomyopathy

(8 marks × 6 = 48 marks)



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SECOND YEAR M.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2016

SUBJECT: ADVANCED PULMONARY REHABILITATION INCLUDING POLYSOMNOGRAPHY  
(SPECIALIZATION: ADULT CARDIO RESPIRATORY CARE)  
(2013 BATCH)

Monday, December 19, 2016

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Long notes:**

1. Define OSA. Explain the pathophysiology, risk factors and treatment for the same.  
(16 marks)
2. Define pulmonary rehabilitation. Describe the patient selection and assessment for pulmonary rehabilitation and also the goal development and rehabilitation potential for the same.  
(16 marks)

3. **Short notes:**

- 3A. Cystic fibrosis
- 3B. Dyspnea assessment and management
- 3C. Special considerations in pulmonary rehabilitation
- 3D. Surgical therapy for COPD patients
- 3E. Walk test
- 3F. Side effects associated with CPAP and Bi-Level pressure therapy

(8 marks × 6 = 48 marks)





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SECOND YEAR M.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2016

**SUBJECT: MANAGEMENT IN RESPIRATORY CARE**  
(SPECIALTY: ADULT CARDIO RESPIRATORY CARE)  
(2013 BATCH)

Tuesday, December 20, 2016

Time: 10:00 – 11:30 Hrs.

Max. Marks: 40

**Answer all the questions:**

1. Define Communication. What are the purposes of communication? Discuss the different forms of communication, giving a brief about their advantages and disadvantages.  
(2+2+6 = 10 marks)
2. Discuss the different Levels of Management; explaining in detail about the various functions performed at each levels.  
(10 marks)
3. **Write short notes on the following:**
  - 3A. Steps in counseling process
  - 3B. Functions of Attitude
  - 3C. Cognitive theory of learning
  - 3D. Intrapsychic theory of Sigmund Freud

(5 marks × 4 = 20 marks)

