

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE
EXAMINATION– DECEMBER 2017

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

Wednesday, December 20, 2017

Time: 10:00 – 11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL the questions.**

1. Define personality. What are the characteristics of personality? Discuss the determinants of personality.

(2+2+6 = 10 marks)

2. Define values. What are the different types of values?

(2+8 = 10 marks)

3. **Write short notes on the following:**

3A. Mechanistic and Organic structure

3B. Steps in mentoring

3C. Punishment

3D. Span of Management

(5 marks × 4 = 20 marks)



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE
EXAMINATION – DECEMBER 2017

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

Tuesday, December 19, 2017

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ Long notes:

1. What is snoring? Explain the pathophysiology and factors influencing snoring. Describe the drugs involved in the treatment of sleep disorders.

(16 marks)

2. Describe the physiology of the normal sleep cycle. Also describe the control of breathing during sleep.

(16 marks)

3. Short notes:

3A. Arousal disorders

3B. Home mechanical ventilation

3C. Ventilator Muscle training

3D. Patients with coexisting pulmonary and cardiac disease

3E. Obesity related respiratory disorders

3F. Pulmonary rehabilitation in Asthma

(8 marks × 6 = 48 marks)



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE
EXAMINATION- DECEMBER 2017

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

Saturday, December 16, 2017

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Draw diagrams wherever necessary.**

1. What are the different types of artificial airways used in emergency medical services? Add a note on the airway maneuvers during ACLS and how is it different in Traumatic life support.
(8+8 = 16 marks)

2. A patient in ICU has developed ventricular tachycardia. The patient is conscious and awake. What is the required management?
The same patient after few minutes developed Ventricular fibrillation. What is the management required.
Add a note on post resuscitation care.
(6+4+6 = 16 marks)

3. **Write short notes on:**
 - 3A. Add a note on adrenaline and adenosine.
(4+4 = 8 marks)
 - 3B. Clinical features and management of stroke.
(8 marks)
 - 3C. Algorithm of primary survey.
(8 marks)
 - 3D. Explain in detail about the intraosseous route.
(8 marks)
 - 3E. Write in detail about chest trauma.
(8 marks)
 - 3F. Indications and contraindications of cardiac pacing.
(8 marks)



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE
EXAMINATION – DECEMBER 2017

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

Friday, December 15, 2017

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Draw diagram wherever necessary.**

1. Why do you think ventilatory graphics is of importance to the ventilatory management?
Reason out your answer with concepts and diagrams.

(16 marks)

2. Define extracorporeal gas exchange technique. Explain veno-venous and veno-arterial cannulation. Discuss the indication, equipment and complications of ECMO.

(2+5+3+3+3 = 16 marks)

3. **Short notes:**

3A. Pressure control over volume control

3B. Davenport nomogram

3C. Plethysmograph

3D. Effects of mechanical ventilation on hemodynamic monitoring

3E. Operating principle of blood gas analyzer

3F. Neutrally adjusted ventilator assist ventilation

(8 marks × 6 = 48 marks)

