

Question Paper

Exam Date & Time: 04-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018
SUBJECT: BRES 301 - MECHANICAL VENTILATION - I
(2016 SCHEME)
Tuesday, December 04, 2018 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Long answer question. Draw diagrams as necessary.

1) Effect of mechanical ventilation on pulmonary arterial pressure and central venous pressure. (10)

2) Abnormal ventilatory graphics and steps to avoid the abnormality. (10)

3) Short notes:

3A) Describe the calculation of compressible volume lost in a ventilator which does not have the function of circuit calibration function. (5)

3B) Describe the ventilation strategies used for an Asthmatic patient. (5)

3C) What the two main Lung protection strategies used in patients with ARDS and how are they implemented? (5)

3D) Compare open loop and closed loop ventilatory system. (5)

4) Very short notes:

4A) Draw flow volume loop depicting Air leak. (2)

4B) Name the two principles used in pulse-oximetry. (2)

4C) Rationalize Intentional Iatrogenic Hyperventilation in patients having cranial herniation associated with Closed Head Trauma. (2)

4D) What is Trans-thoracic pressure? (2)

4E) List four contraindications for the use of HME's. (2)

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Question Paper

Exam Date & Time: 07-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018
SUBJECT: BRES 303 - HEALTHCARE MANAGEMENT AND LAW
(2016 SCHEME)

Friday, December 07, 2018 (14.00 - 16.00)

Answer All Questions.

Marks: 50

Duration: 120 mins.

Long Essay Questions:

- 1) Explain any two Management approaches that influenced managing organisations. (10)
- 2) Discuss on biomedical waste management rules and classify the wastes. (10)

3) Short Answer Questions:

- 3A) Write brief history of hospitals in India, after Independence. (5)
- 3B) Classify different budgets, in three different types. (5)
- 3C) Explain four different tools of Organisational communication. (5)
- 3D) Write about five Occupational hazards to employees in a hospital. (5)

4) Short Questions:

- 4A) Expand the terms JCI, NABH in Quality Management. (2)
- 4B) What are two differences between healthcare and medical care? (2)
- 4C) What is Planning and mention two types of Planning. (2)
- 4D) What is Outsourcing in hospital industry, mention one example. (2)
- 4E) In Industrial relations what is the meaning of Lock Out, Strike? (2)

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Question Paper

Exam Date & Time: 11-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018
SUBJECT: BRES 305 - NEONATAL RESPIRATORY CARE
(2016 SCHEME)

Tuesday, December 11, 2018 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Long answer question.

- 1) Define BPD. Discuss about the Northway classification of BPD. (10)
(2+8 = 10 marks)
- 2) List the cyanotic and acyanotic heart diseases. (10)
(5+5 = 10 marks)

3) Short Notes:

- 3A) Draw the diagram of fetal circulation. (5)
- 3B) Discuss the mechanism by which Bubble CPAP works. (5)
- 3C) What is HIE? Discuss the stages. (5)
- 3D) Downe's Score (5)

4) Very short notes:

- 4A) What is kangaroo mother care? (2)
- 4B) Enlist two advantages of T piece resuscitator over the Ambu bag. (2)
- 4C) Enlist two complications of Oxygen in neonates. (2)
- 4D) X-ray features of MAS. (2)
- 4E) Calculate the dose of curosurf for a 1.5 kg neonate. (2)

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Question Paper

Exam Date & Time: 13-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018
SUBJECT: BRES 307 - CRITICAL CARE MONITORING AND MANAGEMENT
(2016 SCHEME)

Thursday, December 13, 2018 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Long answer question. Draw diagrams as necessary.

- 1) A 70-year-old female, known hypertensive presents to emergency department with complaints of severe headache, sudden left sided weakness, slurring of speech and imbalance followed by decreased level of consciousness. Identify the case scenario and outline its management? (10)
(2+8 = 10 marks)
- 2) Write in detail on indications, site of insertion, complications and technique of ICD tube insertion in adult patients? (10)
(2+2+2+4 = 10 marks)

3. Short notes:

- 3A) Write a note on cardioversion. (5)
- 3B) What are the indications, sites of insertion and complications for pulmonary artery catheterization? (5)
- 3C) Write note on complications of hemodialysis? (5)
- 3D) Write a note on Adrenaline? (5)

4. Very short notes:

- 4A) Define SIRS? (2)
- 4B) Name two class of drugs with an example which is used in managing CHF? (2)
- 4C) Paradoxical chest movement. (2)
- 4D) Mention two indications for cardiac pacing. (2)
- 4E) What is RAAS system? (2)

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