

Question Paper

Exam Date & Time: 23-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - APRIL 2022
SUBJECT: BRES 301 - MECHANICAL VENTILATION I
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Write in detail about the phase variables in mechanical ventilation. (10)
- 2) What is permissive hypercapnia? What are the contraindications to permissive hypercapnia? What are the guidelines for implementing permissive hypercapnia? (10)
(2+4+4 = 10 marks)
- 3A) List the indications and contraindications for NIPPV in adults. (5)
- 3B) What are the factors that affect volume delivery in pressure control ventilation? (5)
- 3C) What are the complications associated with pulmonary artery catheterization? (5)
- 3D) Discuss the indications for mechanical ventilation for patients with status asthmaticus. (5)
- 4A) Write two indications for use of a closed suction catheter. (2)
- 4B) What are the prerequisites for a transport ventilator? (2)
- 4C) What are the goals of instituting PEEP or CPAP? (2)
- 4D) What is vital capacity and mention the normal value of vital capacity? (2)
- 4E) Draw and label a normal capnogram. (2)

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Question Paper

Exam Date & Time: 25-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - APRIL 2022
SUBJECT: BRES 303 - HEALTHCARE MANAGEMENT AND LAW
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

1. LONG ESSAY QUESTIONS:

- 1A) Define emergency. What are the functions of emergency department? Enumerate the advantages and disadvantages of different types of designs of emergency department (10)
- 1B) Explain Henry Fayol's principles of management (10)

2. SHORT ANSWER QUESTIONS:

- 2A) What are the leadership styles adopted in managing organizations? Explain any two of them (5)
- 2B) Explain the role of a respiratory therapist in a medical intensive care unit (5)
- 2C) What are the uses of Hospital Statistics? Describe any five hospital statistics that are collected by Hospital Management (5)
- 2D) Explain the relation between managerial skills and organizational hierarchy (5)

3. SHORT QUESTIONS:

- 3A) Mention the Different types of Inpatient ward designs (2)
- 3B) Give two examples for a medicolegal case (2)
- 3C) Name the different types of indicators used in CSSD (2)
- 3D) Mention a few occupational hazards in a hospital (2)
- 3E) What are the different methods for treatment and disposal of biomedical waste? (2)

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Question Paper

Exam Date & Time: 26-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - APRIL 2022
SUBJECT: BRES 305 - NEONATAL RESPIRATORY CARE
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Classify Meconium aspiration syndrome (MAS). Write a note on management of MAS. | (10) |
| 2) | Enlist cyanotic and acyanotic congenital heart diseases. | (10) |
| 3A) | Management of congenital diaphragmatic hernia. | (5) |
| 3B) | Write a note on chest radiographic stages of RDS. | (5) |
| 3C) | State the temperature ranges of the following:
i) Normal newborn temperature
ii) Mild hypothermia
iii) Moderate hypothermia
iv) Severe hypothermia
v) Cold stress | (5) |
| 3D) | Write a note on fetal circulation. | (5) |
| 4A) | Enlist 4 indications of CPAP in a neonate. | (2) |
| 4B) | If the neonate weighs 2 kgs, what is the initial dose of Survantu you will administer in millilitres? | (2) |
| 4C) | Define Apnea of prematurity. | (2) |
| 4D) | Enlist Any FOUR causes of PPHN. | (2) |
| 4E) | Write TWO complications of excessive oxygen administration in neonates. | (2) |

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