

Question Paper

Exam Date & Time: 19-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - APRIL 2022
SUBJECT: BRES 201 - PULMONARY DIAGNOSTICS
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Which are the techniques to measure Functional Residual Capacity (FRC)? Briefly explain any two techniques. (10)
(3+7 = 10 marks)
- 2) Explain in detail about the stepwise interpretation of Chest X ray. Also, mention the chest X-ray features of cardiogenic pulmonary edema and tension pneumothorax. (10)
(5+5 = 10 marks)
- 3A) Explain in detail the different lung volumes and capacities with the help of a diagram. (5)
- 3B) Write a note on Diffusion capacity for carbon monoxide (DLCO). (5)
- 3C) Write a note on the indications and hemodynamic measurements obtained using a pulmonary artery catheter. (5)
- 3D) Write a note on variable intrathoracic and variable extrathoracic obstruction with the help of diagrams. (5)
- 4A) Define incremental test. Give examples for incremental tests. (2)
- 4B) Enlist the complications of arterial puncture for blood gas testing. (2)
- 4C) Define maximal inspiratory pressure (MIP) and maximal expiratory pressure (MEP). (2)
- 4D) Define anion gap and bicarbonate gap. (2)
- 4E) Draw labelled diagram of normal capnograph. (2)

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Question Paper

Exam Date & Time: 22-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - APRIL 2022
SUBJECT: BRES 205 - PULMONARY DISEASES
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define cardiogenic pulmonary edema. List the etiological factors. Describe the different diagnostic methods of cardiogenic pulmonary edema. (10)
(2+2+6 = 10 marks)
- 2) In detail explain the pathophysiology and management of Acute Respiratory Distress Syndrome (ARDS) (10)
(4+6 = 10 marks)
- 3A) Classify pulmonary hypertension with an example (5)
- 3B) In detail explain the management of myasthenia gravis (5)
- 3C) Write a short note on any two types of interstitial lung disease. (5)
- 3D) Describe the management strategies of drowning. (5)
- 4A) Define Guillain Barre Syndrome (2)
- 4B) Classify Cyanotic Heart Disease (2)
- 4C) Write the chest x-ray features of pneumothorax (2)
- 4D) Define Asthma (2)
- 4E) List the etiology of pneumonia (2)

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