

Question Paper

Exam Date & Time: 04-Dec-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. RESPIRATORY THERAPY/B.Sc. ANAESTHESIA AND OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION
DECEMBER 2019

SUBJECT: BRES 101/BAOTT 101 - RESPIRATORY CARE EQUIPMENT
(2016 RV SCHEME)

Wednesday December 04, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

1) Enlist the various infection control methods used and write in brief about sterilization. Add a note on isolation precautions used in health care setting. (10)
(2+5+3 = 10 marks)

2) What is capnography? Differentiate between main-stream and side-stream capnometry. Write in brief about the normal capnograph with a neat and labelled diagram. (10)
(1+4+5 = 10 marks)

3) Answer the following questions:

3A) What is the principle of operation of pulse oximeter? Write about the various factors that affect pulse oximetry measurements. (5)
(2+3 = 5 marks)

3B) **Write notes on incentive spirometers based on the following:** (5)
i) Mechanism of action
ii) Types of incentive spirometers
iii) Indications of incentive spirometry
(1+1+3 = 5 marks)

3C) Laryngeal mask airway (LMA) (5)

3D) Pressurised metered-dose inhalers (5)

4) Answer the following questions in brief:

4A) State Boyle's law (2)

4B) Define isothermic saturation boundary (ISB). (2)

4C) Define high flow oxygen therapy devices. Give two examples of high flow oxygen therapy devices. (2)

4D) Enumerate the various types of humidifiers. (2)

4E) Define obstructive sleep apnea. (2)

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Question Paper

Exam Date & Time: 05-Dec-2019 (02:00 PM - 04:00 PM)



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FIRST SEMESTER B.Sc. RESPIRATORY THERAPY/B.Sc. ANAESTHESIA AND OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION
DECEMBER 2019

SUBJECT: BRES 103/ BAOTT 103 - MEDICAL TERMINOLOGY
(2016 RV SCHEME/2019 SCHEME)

Thursday, December 05, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) What are the basic elements of the medical term? Explain each of them with examples. (10)
(5+5 = 10 marks)
- 2) Define the following medical terms:
- 2A) Polyarthrititis (1)
- 2B) Gastroenterology (1)
- 2C) Cholecystitis (1)
- 2D) Neuropathy (1)
- 2E) Myalgia (1)
- 2F) Bronchitis (1)
- 2G) Tracheostomy (1)
- 2H) Epistaxis (1)
- 2I) Pneumothorax (1)
- 2J) Anorexia (1)
- 3A) Mention the Root words for the following anatomical location:
- i) Dent (1)
- ii) Oligo (1)
- iii) Hydro (1)
- iv) Myo (1)
- v) Gastro (1)

3B) Expand the abbreviations:

- i) ABG (1)
- ii) ECG (1)
- iii) MRI (1)
- iv) EEG (1)
- v) HTN (1)

3C) List the suffix or prefix and define the medical term:

- i) Arthrology (1)
- ii) Rhinoplasty (1)
- iii) Malnutrition (1)
- iv) Hysterectomy (1)
- v) Thoracotomy (1)

3D) Define the following terms:

- i) Oliguria (1)
- ii) Hemoptysis (1)
- iii) Cardiomegaly (1)
- iv) Dysphagia (1)
- v) Cyanosis (1)

4) Mention the medical terms for the following with examples.

- 4A) Puncture a cavity to remove fluid (2)
- 4B) Surgical removal or excision (2)
- 4C) Permanent opening (2)
- 4D) Cutting to insertion (2)
- 4E) Surgical repair (2)

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