

Question Paper

Exam Date & Time: 19-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./ B.Sc. P.F.T./ BPT/ B.Sc. M.R.T./B.Sc. RADIOTHERAPY TECHNOLOGY/ B.Sc. C.V.T./B.Sc. R.T./
B.Sc. M.I.T./B.Sc. RRT&DT DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT : PATH 201/BMRT 207 - PATHOLOGY
(2016/2016 RV SCHEME)
PATHOLOGY [PATH 201 - 2016]

Marks: 50

Duration: 120 mins.

A

Answer all the questions.

- 1) Define leukemia. Describe the clinical features, peripheral smear findings and chromosomal abnormality of chronic myeloid leukaemia. (10)
(2+3+3+2 = 10 marks)
- 2A) Describe the predisposing factors and clinical features of atherosclerosis. (5)
(3+2 = 5 marks)
- 2B) Define thrombosis. Describe the factors influencing thrombosis. (5)
(2+3 = 5 marks)

3) Write short notes on:

- 3A) Differences between benign and malignant tumours (5)
- 3B) Fracture healing (5)
- 3C) Cellular events in acute inflammation (5)
- 3D) Pneumonia (5)

4) Answer the following questions:

- 4A) List the clinical features of an X-linked recessive disorder. (2)
- 4B) Enumerate the characteristic features of nephrotic syndrome. (2)
- 4C) List the types of jaundice with an example of each. (2)
- 4D) List the types of tuberculosis. (2)
- 4E) Name four reversible cellular adaptations with an example of each. (2)

-----End-----

Question Paper

Exam Date & Time: 20-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./BPT/ B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./B.Sc. RRT&DT DEGREE EXAMINATION -
FEBRUARY 2020
SUBJECT : MICR 201 - MICROBIOLOGY
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain the mechanisms of autoimmunity. List two diseases each involving single and multiple organ or system. (10)
(6+4 = 10 marks)
- 2) Explain the etio-pathogenesis and laboratory diagnosis of clostridial myonecrosis. (10)
(1+4+5 = 10 marks)

3) Write short notes on:

- 3A) Laboratory diagnosis of HIV infection (5)
- 3B) Investigation of hospital acquired infections (5)
- 3C) Pathogenesis of influenza virus (5)
- 3D) Laboratory diagnosis of enteric fever (5)

4) Answer the following questions:

- 4A) Prevention of tetanus (2)
- 4B) Laboratory diagnosis of acute rheumatic fever (2)
- 4C) Functions of IgA antibody (2)
- 4D) Classification of sterilization methods (2)
- 4E) Transmission of viral hepatitis (2)

-----End-----

Question Paper

Exam Date & Time: 21-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BRES 201 - PULMONARY DIAGNOSTICS
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) What are the anatomical locations for arterial blood sampling? Explain the procedure and prerequisites for ABG sampling? (10)
(3+4+3 = 10 marks)
- 2) Explain Lung volumes and capacities with help of a diagram. Discuss briefly about nitrogen washout test? (10)
(5+5 = 10 marks)
- 3A) What are the sites of insertion, indications and complications for central venous catheterization? (5)
(2+2+1 = 5 marks)
- 3B) Short note on body plethysmograph? (5)
- 3C) Write in detail about metabolic acidosis? (5)
- 3D) Short note on Modified Allen's Test. (5)
- 4A) Describe the radiological features of: (2)
i) Pneumothorax
ii) COPD
- 4B) List the any four indications for Pulmonary Function Testing? (2)
- 4C) Mention two difference between AP view and PA view? (2)
- 4D) Mention four causes of Respiratory acidosis? (2)
- 4E) List two indications of Cardiopulmonary exercise testing? (2)

-----End-----

Question Paper

Exam Date & Time: 22-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BRES 203 - PEDIATRIC RESPIRATORY CARE
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Essay Question:

- 1) Define shock, types of shock, monitoring and management of Shock. (1+3+2+4 = 10 marks) (10)
- 2) Describe in detail the stages of lung development with diagram? (10)

3) Short Essay Question:

- 3A) Congenital diaphragmatic hernia. (5)
- 3B) Management of exacerbation of asthma. (5)
- 3C) Tracheostomy. (5)
- 3D) Arterial blood gas sampling. (5)

4) Short Notes:

- 4A) Mechanism of action of anticholinergic drugs. (2)
- 4B) List two management of Pleural effusion. (2)
- 4C) What are the parts of pressurized meter dose inhaler? (2)
- 4D) Airway abnormality features in chest X-ray? (2)
- 4E) What is the mechanism of cough insufflator exsufflator? (2)

-----End-----

Question Paper

Exam Date & Time: 24-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BRES 205 - PULMONARY DISEASES
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Long answer questions:

- 1) Write the pathophysiology of myasthenia gravis. Enumerate the diagnosis and general management of Myasthenia gravis. (10)
(5+5 = 10 marks)
- 2) Define pleural effusion. Explain the pathophysiology and the management. (10)
(2+4+4 = 10 marks)

3) Write short notes on:

- 3A) What is premenstrual asthma? (5)
- 3B) General management of smoke inhalation and thermal injuries. (5)
- 3C) Pathophysiologic sequence in drowning (5)
- 3D) Differentiate between transudative and exudative pleural effusion. (5)

4) Very short notes:

- 4A) Define pulmonary hypertension. (2)
- 4B) List four anatomical alterations of the lungs due to ARDS. (2)
- 4C) List two etiologic causes of Laryngotracheobronchitis. (2)
- 4D) Define Hypopnea. (2)
- 4E) What is asbestosis? (2)

-----End-----