Exam Date & Time: 10-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018 SUBJECT: BRES 201 - PULMONARY DIAGNOSTICS (2016 SCHEME)

Monday, December 10, 2018 (14.00 - 16.00)

Answer all the questions.

Marks: 50

With a help of a diagram explain about Nitrogen Washout Technique. (10)1) (4+6 = 10 marks)Stepwise Interpretation of Arterial blood gas sampling. (10)2) List out the causes for High anion gap. 3A) (5) Metabolic Acidosis 3B) (5) 3C) Chest X-ray features of pneumonia (5) 3D) Mention four indications for cardiopulmonary exercise testing. (5) 4A) List the difference between Anterior Posterior view and Posterior Anterior view. (2) 4B) What is streak artefact? (2) List any four causes of cavitating lung lesions. 4C) (2) What are the contraindication for central venous catheterization? 4D) (2) Write the winters equation for metabolic acidosis. (2) 4E) ----End-----

Duration: 120 mins.

Exam Date & Time: 12-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018 SUBJECT: BRES 203 - PEDIATRIC RESPIRATORY CARE (2016 SCHEME)

Wednesday, December 12, 2018 (14.00 - 16.00)

Marks: 50 Duration: 120 mins.

ESSAY QUESTION: Discuss on pathophysiology and management of Acute Respiratory Distress Syndrome. (10)1) (5+5 = 10 marks)2) Describe in detail about fetal circulation and fetal shunts with diagram. (10)(5+5 = 10 marks)3) SHORT ESSAY QUESTION: 3A) Arterial blood gas sampling (5) 3B) Discuss on genetics and diagnosis of cystic fibrosis. (5) (1+4 = 5 marks)3C) Congenital diaphragmatic hernia (5) What is Respiratory Acidosis and what are the causes of Respiratory Acidosis? 3D) (5) (1+4 = 5 marks)4) SHORT NOTES: 4A) List four latrogenic injury in ICU. (2) List obstructive airway disease values (FEV1, FVC, FEV1/FVC) in PFT. (2) 4B) Mechanism of action of anticholinergic drugs (2) 4C) Define Flail chest. 4D) (2) 4E) List four factors affecting aerosol therapy in neonatal and pediatric ventilated patients. (2) ----End-----

Exam Date & Time: 14-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - DECEMBER 2018 SUBJECT: BRES 205 - PULMONARY DISEASES (2016 SCHEME)
Friday, December 14, 2018 (14.00 - 16.00)

Duration: 180 mins. Marks: 50 1) Define ARDS. List out the pulmonary and extra pulmonary causes and the (10)pathophysiological mechanisms. (2+3+5 = 10 marks)Enumerate on the cardiopulmonary and the clinical manifestation's associated with (10)2) drowning and explain the general management. (2+8 = 10 marks)3. Write short notes on: 3A) Diagnostic tests used to detect Tuberculosis. (5) Discuss the GOLD criteria for COPD. 3B) (5) 3C) Pathophysiology of Guillain Barre syndrome. (5) 3D) Reid classification of Bronchiectasis. (5) 4. Very short answer questions: 4A) List any two opportunistic yeast pathogens causing lung infections. (2) 4B) List the major pathological changes associated with pulmonary air leak syndrome. (2) What is asbestosis? 4C) (2) What is Type II respiratory failure? (2) 4D) 4E) What is absorption atelectasis? (2) ----Fnd-----

Exam Date & Time: 06-Dec-2018 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./ B.Sc. P.F.T./ BPT/ B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT

DEGREE EXAMINATION - DECEMBER 2018

SUBJECT: MICR 201 - MICROBIOLOGY

(2016 SCHEME)

Thursday, December 06, 2018 (14.00 - 16.00)

Answer ALL questions:

Duration: 120 mins. Marks: 50 1) With a labelled diagram explain the cell wall of gram positive and gram negative (10)bacteria. (5+5 = 10 marks)Explain the etio-pathogenesis and laboratory diagnosis of cholera. 2) (10)(1+4+5 = 10 marks)3) Write short notes on: Laboratory diagnosis of HIV infection (5) 3A) 3B) Bacterial growth curve (5) 3C) Pathogenesis of poliomyelitis (5) 3D) Laboratory diagnosis of viral infections (5) 4) Answer the following questions: Indirect immunofluorescence test (2) 4A) 4B) Clinical features of urinary tract infections (2) Types of vaccines with examples 4C) (2) Classification of PUO 4D) (2) Morphology of Entamoeba histolytica 4E) (2) ----Fnd-----



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./ B.Sc. P.F.T./ BPT/ B.Sc. M.R.T./B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./B.Sc. RRT&DT DEGREE EXAMINATION - DECEMBER 2018

SUBJECT: PATH 201 - PATHOLOGY

(2016 SCHEME)

Monday, December 03, 2018 (14.00 - 16.00)

Answer ALL questions:

Marks: 50 **Duration: 120 mins.** 1A) Define necrosis. List any three types of necrosis with examples. (5) (2+3 = 5 marks)1B) Define granuloma and illustrate it with a suitable diagram. Enumerate the causes of (5) granulomatous inflammation. (3+2 = 5 marks)2A) Describe the predisposing factors and complications of atherosclerosis. (5) 2B) Describe the aetiology and clinical features of rheumatic heart disease. (5) 3A) Differentiate between healing by primary and secondary intention with suitable (5) examples. Define embolism. Enlist the types of embolism. Write a note on the clinicopathological 3B) (5) consequences of pulmonary thromboembolism. (1+3+1 = 5 marks)3C) i) Write a short notes on: Emphysema (5) 3C) ii) Write a short notes on: Jaundice (5) Mention the confirmatory tests for iron deficiency anaemia and thalassemia. 4A) (2) 4B) List four features of a malignant tumour. (2) List four complications of diabetes mellitus. (2) 4C) List four features of nephrotic syndrome. (2) 4D) List four causes of thrombocytopenia. (2) 4E)