

Question Paper

Exam Date & Time: 02-Jul-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: PHYS 102 - PHYSIOLOGY - II
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Long Essay:

- 1) Describe Any **FIVE** functions of Hypothalamus. (10)
- 2) Mention **THREE** actions of growth hormone. Describe the regulation of secretion of growth hormone. Mention any **FOUR** clinical features of acromegaly. (10)
(3+3+4 = 10 marks)

3. Write briefly on:

- 3A) Define menstruation. Describe the endometrial changes that occur during a normal menstrual cycle. (5)
(1+4= 5 marks)
- 3B) Define Glomerular Filtration Rate (GFR). Give its normal value. Explain the TWO factors regulating GFR. (5)
(1+1+3 = 5 marks)
- 3C) Name the important constituents of saliva and list its functions. (5)
(2+3 = 5 marks)
- 3D) Mention the cause and any FOUR clinical features of Cushing syndrome. (5)
(1+4 = 5 marks)

4. Short notes:

- 4A) Draw and label a reflex arc. (2)
- 4B) Enumerate Any TWO functions of cerebellum. (2)
- 4C) List Any TWO functions of sertoli cells. (2)
- 4D) List TWO functions of large intestine. (2)
- 4E) List Any FOUR substances reabsorbed in the PCT. (2)

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Question Paper

Exam Date & Time: 04-Jul-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: BRES 102 - CLINICAL EXAMINATION IN RESPIRATORY CARE
(2016 SCHEME)

Answer ALL questions.

Draw diagram where required.

Marks: 50

Duration: 120 mins.

- 1) Write indications for central venous pressure monitoring. Describe the procedure for inserting a central venous catheter. (10)
(4+6 = 10 marks)
- 2) Write a note on auscultation of the breath sounds. (10)
- 3A) Employ the Henderson-Hasselbalch equation to relate changes in PCO_2 and HCO_3^- to pH. (5)
- 3B) Explain normal stages of sleep. (5)
- 3C) Enlist Any FIVE respiratory conditions that are commonly encountered in home care. What are common respiratory treatment modalities used in homecare? (5)
(2+3 = 5 marks)
- 3D) Explain about the three zones of space commonly associated with the bedside patient encounter. (5)
- 4A) What is the normal value of Pulmonary artery wedge pressure and mean arterial pressure? (2)
- 4B) Enlist Any FOUR indications of flexible bronchoscopy. (2)
- 4C) Write the steps of ECG interpretation. (2)
- 4D) Define the terms Platypnoea and Orthopnoea. (2)
- 4E) In which disease condition, do the following special radiographic evaluation signs appear: (2)
 - i) Silhouette sign
 - ii) Air bronchograms
 - iii) Deep sulcus sign
 - iv) Lung nodules

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