

Aswan University
Faculty of Medicine
Dep. of Medical Physiology
Sunday, 22/4/ 2018

Ms. Program "Medical Physiology"
Final Physiology Exam."Second paper"
Time allowed: 3 hours
Total Marks: 200

Answer all the following questions:

1- Respiratory system: (70 Marks)

- a- Write an account on the chemical control of respiration?
(30 Marks)
- b- Explain the effects of hydrostatic pressure gradients in the lung on the pulmonary blood flow ?
(20 Marks)
- c- Discuss the ventilation – perfusion ratio in normal and abnormal condition?
(20 Marks)

2- Digestive System: (65 Marks)

- a- Describe the types, functions and control of stomach motility?
(25 Marks)
- b- State the principles of ions absorption through the gastrointestinal tract?
(20 Marks)
- c- Mention the autonomic reflexes controlling gastrointestinal tract functions?
(20 Marks)

3- Renal system: (65 Marks)

- a- Discuss physiologic control of glomerular filtration and renal blood flow?.
(20 Marks)
- b- Role of renal system in regulation of acid base balance?
(20 Marks)
- c- A 60 year- old man with a history of heart disease is admitted to the hospital with congestive heart failure. He is stabilized and treated in the intensive care unit. His pulmonary and