

Aswan University

Ms. Program "Chest Medicine"

Faculty of Medicine

Final physiology exam.

Dep. of Medical Physiology

Time : 60 minutes.

Sunday, 15/4/ 2018

Total Marks: 30

Answer the following questions:

1- A 50- year old man who smoked heavily for many years developed sever worsening cough with purulent sputum.He was admitted to the hospital because of difficulty in breathing ,drawseness and cyanosis.His arterial blood gas analysis was as follow: pH 7.1,pO₂ 50 mmHg,pCO₂ 70 mmHg,HCO₃ 26 mmol/L.?

a- What the patient was suffering from (based on blood gas analysis) with explanation? (6 Marks)

b- Describe the role of respiratory system in regulation of blood pH? (7 Marks)

c- Define cyanosis, mention its types and causes? (7 Marks)

2- Describe the mechanism of fever and how does the body react to it? (10 Marks)

Good Luck. Prof. Mahmoud Raafat & Exam committee