

**Tanta university faculty  
of Medicine  
Anesthesia & SICU  
Date 10/8/2017**

**1st part of MD  
Physiology  
Time allowed 3 hours  
Total marks 45**



- 1-Demonstrate the effects of induced hypothermia (10marks)**
- 2- Define oxygen content , oxygen delivery and oxygen extraction (5marks)**
- 3-Demonstrate physiological change during pregnancy (10marks)**
- 4- In case of TBI cerebral blood flow is disturbed explain**
- 1. Major determinant of cerebral blood flow ( 3marks)**
  - 2. Cerebral perfusion pressure and it's important (3marks)**
  - 3. The effect of head trauma on auto regulation (4marks)**
- 5-lateral position has physiological effect**
- 1. Identify physiological changes in a spontaneously breathing patient in lateral position (5 marks)**
  - 2. Explain physiological changes occurring during one lung ventilation (5marks)**

**Good luck**

**Oral exam 15/8/2017**