


Tanta university faculty of Medicine Anesthesia & SICU Date13/5/2017	MD physic &measurement Time allowed 3 hours Total marks 100	
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1- Invasive blood pressure measurement

a-Identify physical principle, source of error& how reduce it

(10marks)

b-Interpret arterial wave form

(10markes)

**2- Demonstrate advantages and disadvantages of low flow breathing systems and what are the safe guards you require when they are used
(20marks)**

3-- Describe methods for measuring body temperature, sites of measurement and detail the physical principles involved

(20 marks)

**4-Explain venturi principle and its application in general anaesthesia
(20marks)**

5-Demonstrate measurement of intraoperative blood loss

(20 marks)

Good luck