


Tanta University	Exam: Diploma (1 <sup>st</sup> Part)	
Faculty of Medicine	(Pharmacology)	
Anesthesia & SIC Dep.	No. of Questions: 5	
Date: 14 / 4 / 2016	Times allowed: 1 hour / 3 hours ( Total )	
	Total marks: 50	

Q1. Mention and explain the drug of choice in the following settings:

- A. Induction of anesthesia in patient with hypovolemic shock. (3 marks)
- B. Control of atrial fibrillation in asthmatic patient. (3 marks)
- C. Correction of hypotension in elderly patient with aortic stenosis. (3 marks)
- D. Correction of marked hypotension and severe bradycardia complicating spinal anesthesia for cesarean-section. (3 marks)
- E. Control of acute hypertension post cesarean section in patient with preeclampsia. (3 marks)

Q2. A 78-year-old man with Parkinson disease undergoing intraocular lens implantation under sevoflurane anesthesia. He has 2 episodes of nausea and vomiting in the PACU. Which one of the following antiemetics would be the best choice for treatment of PONV in his sitting (2 marks)? Justify your answer (3 marks).

- A. Promethazine.
- B. Metochlopramide.
- C. Ondansetron.
- D. Droperidol.
- E. Thiethylperazine.

Q3. A 22-year-old, 110 kg man presents to emergency room suffering of smoke inhalation and burns of third degree on the abdomen, chest and thighs 30 minutes after the accident. Which of the following will be the best muscle relaxant for tracheal intubation in his sitting (2 marks)? Explain your answer (3 marks).

- A. Rocuronium.
- B. Pancuronium.
- C. Atracurium.
- D. Succinylcholine.
- E. Vecuronium.

Q4. A 32-year-old lady undergoing a laparoscopic gastric sleeve surgery under sevoflurane, remifentanil, and cis-atracurium. Following extubation, which of the following scenario is the most likely upon emergence from anesthesia (2 marks)? Justify your answer (3 marks).

- A. Delayed emergence from remifentanil.
- B. Pain.

- C. Chest wall stiffness.
- D. Adequate analgesia for at least 60 minutes.
- E. Respiratory depression in the PACU.

Q5. The use of magnesium in anesthesia practice is on the rise. It is an important intra-cellular cation and is an important constituent of human body enzymes.

- A. What is the normal value of plasma magnesium and its therapeutic level? (3 marks)
- B. Discuss its therapeutic uses and how does it work? (8 marks)
- C. Outline the manifestations of its toxicity. What are the plasma levels correlated with each manifestation? (4 marks)

.....GOOD LUCK.