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| <p style="text-align: center;">Tanta University Faculty of Medicine</p> <p style="text-align: center;">Anesthesia , SICU & pain Medicine Dep.</p> <p style="text-align: center;">Date 8 /6/2021</p> | <p style="text-align: center;">Exam : MS Degree 2nd Part 2nd paper SICU& Pain management No. of Questions: 11 Questions Times allowed : 3 hours Marks : 270 marks</p> |  |
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Q 1: A 66 y man 60 Kg diabetic with chronic kidney disease had RTA, admitted to SICU after fixation of fracture femur and splenectomy on the 3rd postoperative day developed tachypnea RR 30 br /min, SpO₂ 82 % on room air, BP 80/45 mmHg, HR 130 b/min, CVP 6 cm H₂O urine output 50 ml in the last 2 hours blood glucose 250 mg/dl. ABGs pH 7.15, PaO₂ 60 mmHg on oxygen mask 10 liter, PaCO₂ 50 mmHg, HCO₃ 15 mmol/l. Na 150 mmol/L, K 5 mmol/L, Cl 100 mmol/L, lactate 4 mmol/L.

- a- Explain patient deterioration, How to manage & When to start mechanical ventilation in this patient? (20M)
- b - Interpret and explain this ABG? (20 marks)
- c - Describe dynamic tests to diagnose & manage volume responder? (20marks)
- d - Outline different types of hypernatremia and their management? (15marks)
- e - Enumerate criteria of acute kidney injury and its management? (15marks)

Q 2: During positive mechanical ventilation, patient's peak airway pressures suddenly increased; demonstrate differential diagnosis and management of this situation? (20 marks)

Q 3: Mention forms and causes of cardiac arrest and their management? (20marks)

Q 4: Mention sedation holiday procedure, advantages and contraindication? (20marks)

Q 5: Enumerate content of immunonutrition and their function? (15 marks)

Q 6: Describe management of multidrug resistant klebsiella pneumonia and factors decrease antibiotic resistance in ICU? (15marks)

Q 7: A 30 y old woman complains of a bilateral headache 4 days after undergoing an L3–4 midline epidural steroid injection. The headache is worse when sitting up. What is the diagnosis and management of this patient? (20marks)


Q 8: Presence of red flags in acute low back pain suggests the need for further investigation and possible specialist referral. What are the red flags? (20 marks)

Q 9: Give an account on pharmacological management of neuropathic pain & mechanisms of action?(20mark)

Q10: Demonstrate pain management of flail chest & pulmonary contusion? (15marks)


Q11: Define the followings: opioid tolerance, opioid rotation, opioid hyperalgesia (15marks)

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| <p>Tanta University Faculty of Medicine Anesthesia, SICU & Pain Medicine Dep. Date: 17 / 5 / 2021</p> | <p>Exam: Master Degree 2nd Part Paper 1 No. of Questions: 12 questions Times allowed: 3 hours Total marks: 180 marks</p> |  |
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- Q 1: A 37 years pregnant woman with mitral stenosis , mitral valve area 2 cm^2 , scheduled for cesarean section. Discuss preoperative preparation, possible anesthetic options and precautions in this patient? (20marks)
- Q2: What are precautions to prevent intrauterine asphyxia during anesthesia? (15marks)
- Q3: Mention differential diagnosis of postoperative hypoxemia? (15marks)
- Q4: Full term 3kg infant scheduled for repair of congenital diaphragmatic hernia. Discuss peri-operative problems and their management? (20 marks)
- Q5: Demonstrate causes and management of intraoperative bradycardia? (15marks)
- Q6: Plan algorithm for difficult intubation? (15marks)
- Q7: Discuss the intra- & postoperative complication associated with laparoscopic surgery? (15 marks)
- Q8: Describe anesthetic consideration for repair of open eye injuries? (15marks)
- Q9: Demonstrate with explanation preoperative preparation of asthmatic patients? (10 marks)
- Q10: Describe management of one lung ventilation during thoracic surgery with double lumen tube? (15 marks)
- Q11: Demonstrate postoperative complications after thyroidectomy & their management? (15 marks)
- Q12: Mention the precautions to prevent sickling during anesthesia in patient with sickle cell disease? (10 marks)

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| <p>Tanta University Faculty of Medicine Anesthesia, SICU & Pain Medicine Dep. Date: 29/ 5 / 2021</p> | <p>Exam: Master Degree 2nd Part Paper 2 No. of Questions: 9 Questions Times allowed: 3 hours Total marks: 180 marks</p> |  |
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Q 1: A 50 years man with abdominal trauma underwent surgery for splenectomy and repair of liver tear, admitted to ICU mechanically ventilated because of aspiration during induction of anesthesia O₂ saturation 90% on FiO₂ 100%. arterial blood gas (pH 7.23 , PaCO₂ 32 mmHg , PaO₂ 60 mmHg , HCO₃ 16 mmol/L , Lactate 4 mmol/L , Na 140 mmol/L , K 5 mmol/L , Cl 100 mmol/L)

- a. Outline diagnosis & ventilatory strategy in patient with acute respiratory distress syndrome? (20mark)
- b. Interpret and explain this ABG? (10 marks)
- c. Mention ECG changes and management of hyperkalemia? (10 marks)

Q 2: A 65 years female patient weight 60 kg, diabetic, had left lower limb wet gangrene, planned for below knee amputation. Patient is drowsy blood pressure 80/50 mmHg, heart rate 120 b/min, respiratory rate 27 br/min, urine output 50 ml in the last 6 hours. Admitted to ICU for preoperative preparation.

- A - Mention causes and management of shock in this patient? (20marks)
- B - Enumerate criteria of acute kidney injury and its management? (10marks)
- C - Explain causes and management of supraventricular tachycardia? (10marks)

Q3: Enumerate complication of parenteral nutrition ? (10marks)

Q4: Define status epilepticus and Mention phases of management? (10marks)

Q5: Mention sedation holiday technique its advantage and its contraindication? (10marks)


Q6: Mention non pharmacological prevention of ventilator associated pneumonia? (10marks)

Q7: Define: Chronic pain, Hyperalgesia, Allodynia and Dysesthesia? (20marks)

Q8: Describe different analgesic protocols for 2 years old child after hernia repair with circumcision? (20M)

Q9: What are the effects of improper management of acute postoperative pain? (20 marks)

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| <p>Tanta University Faculty of Medicine Anesthesia, SICU & Pain Medicine Dep. Date: 1 / 6 / 2021</p> | <p>Exam : MS Degree 2nd Part Paper 1 Anesthesia No. of Questions: 13 Short Questions Times allowed : 3 hours Marks :270 marks</p> |  |
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- 1 - A 31-year-old primigravida at 36 weeks' gestation presents with blood pressure 170/110 mmHg, proteinuria, persistent headache and hyperreflexia. She requires delivery by caesarean section within three hours. Justify your choice of anesthesia? (20 marks)
- 2 - Discuss particular problems may occur during lower abdominal surgery in a patient with traumatic transection of the spinal cord at C6 four weeks previously? (25marks)
- 3 - Describe management of a patient developed intraoperative air embolism? (20marks)
- 4 - Female patient aged 46y presented with loss of consciousness. CT showed subarachnoid hemorrhage. Discuss complications after clipping of cerebral aneurysm? (25marks)
- 5 - Demonstrate potential complication of prone position and how can be avoided? (20marks)
- 6 - 2 month old infant presented with pyloric stenosis, the patient had 3 days history of projectile vomiting Describe preoperative management of this patient? (20marks)
- 7 - Plan how to minimize intraoperative transfusion requirement? (20 marks)
- 8 - Demonstrate precautions to prevent sickling during anesthesia in patient with sickle cell disease? (20marks)
- 9 - Describe anesthetic consideration in patient with mitral valve prolapse? (20marks)
- 10 - Describe management of one lung ventilation during thoracic surgery with double lumen tube? (20marks)
- 11 - Demonstrate postoperative complications after thyroidectomy & their management? (20M)
- 12 - Child 2 years old in preanesthesia clinic had large adenoid and rhinorrhea scheduled for adenoidectomy. When to postpone this case? (20 marks)
- 13 - Mention manifestations and treatment of local anesthetic toxicity? (20 marks)

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