

## Appendix G: Final CPC Assessment Content Outline and Sampling Plan

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### **Domain I: Airway Management (34%)**

- I.A. Anatomy
  - I. A.1. Normal anatomical structures
  - I. A.2. Variants in anatomical structures
  
- I.B. Physiological concepts
  - I. B.1. Normal physiological concepts
  - I. B.2. Variants in physiologic concepts
  
- I.C. Pathophysiological concepts
  - I. C.1. Pathophysiologic diseases impacting airway management
  
- I.D. Pharmacology
  - I. D.1. Indications, contraindications, effects and adverse effects of anesthetic and adjunct medications related to airway management
  
- I.E. Airway equipment
  - I. E.1. Indications and contraindications associated with the use of airway equipment
  - I. E.2. Failure and corrective actions of airway equipment
  
- I.F. Management concepts
  - I. F.1. Airway assessment
  - I. F.2. Risks, benefits, and alternative airway techniques (awake or asleep intubations, laryngeal mask airways, oropharyngeal airways, nasopharyngeal airways, fiber optic techniques, endobronchial intubation, adjunct airway equipment, etc.)
  - I. F.3. Anticipation, identification, and management of urgent and/ emergent airways
  - I. F.4. Anticipation, identification, and management of difficult airways and ventilation
  - I. F.5. Emergence/extubation/reintubation
  - I. F.6. Airway Complications


### **Domain II: Applied Clinical Pharmacology (24%)**

- II.A. Pharmacokinetics/pharmacodynamics/pharmacogenetics of anesthetics and adjunct medications
  
- II.B. Factors influencing medication selection
  - II. B.1. Physiological
  - II. B.2. Pathophysiological
  - II. B.3. Laboratory and diagnostic studies
  - II. B.4. Utilization, actions, interactions, benefits, adverse effects, abnormal responses, alternatives, and antagonists
  - II. B.5. Comorbidity
  
- II.C. Intraoperative monitoring techniques

- II.D. Infection prevention principles
- II.E. Adverse Pharmacological Reactions

**Domain III: Human Physiology and Pathophysiology (24%)**

- III.A. Cardiovascular
  - III. A.1. Normal anatomical structures and function
  - III. A.2. Physiologic processes and anesthetic considerations
  - III. A.3. Pathophysiologic disease processes and associated disorders
- III. B. Respiratory
  - III. B.1. Normal anatomical structures and function
  - III. B.2. Physiologic processes and anesthetic considerations
  - III. B.3. Pathophysiologic disease processes and associated disorders
- III. C. Neurological
  - III. C.1. Normal anatomical structures and function
  - III. C.2. Physiologic processes and anesthetic considerations
  - III. C.3. Pathophysiologic disease processes and associated disorders
- III. D. Renal
  - III.D.1. Normal anatomical structures and function
  - III. D.2. Physiologic processes and anesthetic considerations
  - III. D.3. Pathophysiologic disease processes and associated disorders
- III. E. Gastrointestinal
  - III. E.1. Normal anatomical structures and function
  - III. E.2. Physiologic processes and anesthetic considerations
  - III. E.3. Pathophysiologic disease processes and associated disorders
- III. F. Hematological
  - III. F.1. Normal anatomical structures and function
  - III. F.2. Physiologic processes and anesthetic considerations
  - III. F.3. Pathophysiologic disease processes and associated disorders
- III. G. Endocrine
  - III. G.1. Normal anatomical structures and function
  - III. G.2. Physiologic processes and anesthetic considerations
  - III. G.3. Pathophysiologic disease processes and associated disorders
- III. H. Musculoskeletal
  - III. H.1. Normal anatomical structures and function
  - III. H.2. Physiologic processes and anesthetic considerations
  - III. H.3. Pathophysiologic disease processes and associated disorders
- III.I. Interpret laboratory studies, and diagnostic studies

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- III.J Factors influencing anesthetic approach, technique, and management
    - III. J.1. Indications, contraindications, complications, and alternatives
    - III .J.2. Assessment and interpretation of intraoperative data

***Domain IV: Anesthesia Equipment and Technology (18%)***

- IV.A. Proper function, malfunction, and troubleshooting complications
- IV.B. Safety and infection prevention protocols
- IV.C. Anesthetic delivery and clinical monitoring devices
  - IV. C.1. Selection
  - IV. C.2. Risks
  - IV. C.3. Benefits
  - IV. C.4. Alternatives
  - IV. C.5 Complications
- IV.D. Assess, analyze, interpret and use perioperative data