Appendix G: Final CPC Assessment Content Outline and Sampling Plan

**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
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