

SYLLABUS FOR AIPHDCET
ENTRANCE EXAMINATION IN ANAESTHESIOLOGY
 JAWAHARLAL NEHRU MEDICAL COLLEGE SAWANGI MEGHE WARDHA, D.M.I.M.S D.U

No.	Title
1	<i>Scope of Modern Anesthetic Practice</i>
2	<i>International Scope, Practice, and Legal Aspects of Anesthesia</i>
3	<i>Perioperative Management</i>
4	<i>Operating Room Management</i>
5	<i>Medical Informatics</i>
6	<i>Quality Improvement and Patient Safety</i>
7	<i>Human Performance and Patient Safety</i>
8	<i>Patient Simulation</i>
9	<i>Teaching Anesthesia</i>
10	<i>Ethical Aspects of Anesthesia Care</i>
11	<i>Legal Aspects of Anesthesia Care</i>
12	<i>Anesthesia Business Models</i>
13	<i>Consciousness, Memory, and Anesthesia</i>
14	<i>Sleep Medicine</i>
15	<i>Perioperative and Anesthesia Neurotoxicity</i>
16	<i>The Autonomic Nervous System</i>
17	<i>Cerebral Physiology and the Effects of Anesthetic Drugs</i>
18	<i>Neuromuscular Physiology and Pharmacology</i>
19	<i>Respiratory Physiology and Pathophysiology</i>
20	<i>Cardiac Physiology</i>
21	<i>Gastrointestinal Physiology and Pathophysiology</i>
22	<i>Hepatic Physiology and Pathophysiology</i>
23	<i>Renal Physiology, Pathophysiology, and Pharmacology</i>
24	<i>Basic Principles of Pharmacology</i>
25	<i>Inhaled Anesthetics: Mechanisms of Action</i>
26	<i>Inhaled Anesthetic Pharmacokinetics: Uptake, Distribution, Metabolism, and Toxicity</i>
27	<i>Inhaled Anesthetics: Pulmonary Pharmacology</i>
28	<i>Inhaled Anesthetics: Cardiovascular Pharmacology</i>
29	<i>Inhaled Anesthetics: Delivery Systems</i>
30	<i>Intravenous Anesthetics</i>
31	<i>Opioid Analgesics</i>
32	<i>Nonopioid Pain Medications</i>

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3 3	<i>Intravenous Drug Delivery Systems</i>
3 4	<i>Pharmacology of Neuromuscular Blocking Drugs</i>
3 5	<i>Reversal (Antagonism) of Neuromuscular Blockade</i>
3 6	<i>Local Anesthetics</i>
3 7	<i>Risk of Anesthesia</i>
3 8	<i>Preoperative Evaluation</i>
3 9	<i>Anesthetic Implications of Concurrent Diseases</i>
4 0	<i>Anesthetic Implications of Complementary and Alternative Medications</i>
4 1	<i>Patient Positioning and Associated Risks</i>
4 2	<i>Neuromuscular Disorders and Other Genetic Disorders</i>
4 3	<i>Malignant Hyperthermia and Muscle-Related Disorders</i>
4 4	<i>Fundamental Principles of Monitoring Instrumentation</i>
4 5	<i>Cardiovascular Monitoring</i>
4 6	<i>Perioperative Echocardiography</i>
4 7	<i>Electrocardiography, Perioperative Ischemia, and Myocardial Infarction</i>
4 8	<i>Implantable Cardiac Pulse Generators: Pacemakers and Cardioverter-Defibrillators</i>
4 9	<i>Neurologic Monitoring</i>
5 0	<i>Monitoring Brain State During General Anesthesia and Sedation</i>
5 1	<i>Respiratory Monitoring</i>
5 2	<i>Renal Function Monitoring</i>
5 3	<i>Neuromuscular Monitoring</i>
5 4	<i>Temperature Regulation and Monitoring</i>
5 5	<i>Airway Management in the Adult</i>
5 6	<i>Spinal, Epidural, and Caudal Anesthesia</i>
5 7	<i>Peripheral Nerve Blocks</i>
5 8	<i>Ultrasound Guidance for Regional Anesthesia</i>
5 9	<i>Perioperative Fluid and Electrolyte Therapy</i>
6 0	<i>Perioperative Acid-Base Balance</i>
6 1	<i>Patient Blood Management: Transfusion Therapy</i>
6 2	<i>Patient Blood Management: Coagulation</i>
6 3	<i>Patient Blood Management: Autologous Blood Procurement, Recombinant Factor VIIa Therapy, and Blood Utilization</i>
6 4	<i>Anesthesia and Treatment of Chronic Pain</i>
6 5	<i>Palliative Medicine</i>

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6 6	<i>Anesthesia for Thoracic Surgery</i>
6 7	<i>Anesthesia for Cardiac Surgical Procedures</i>
6 8	<i>Anesthesia for Correction of Cardiac Arrhythmias</i>
6 9	<i>Anesthesia for Vascular Surgery</i>
7 0	<i>Anesthesia for Neurologic Surgery</i>
7 1	<i>Anesthesia for Bariatric Surgery</i>
7 2	<i>Anesthesia and the Renal and Genitourinary Systems</i>
7 3	<i>Anesthesia and the Hepatobiliary System</i>
7 4	<i>Anesthesia for Abdominal Organ Transplantation</i>
7 5	<i>Anesthesia for Organ Procurement</i>
7 6	<i>Brain Death</i>
7 7	<i>Anesthesia for Obstetrics</i>
7 8	<i>Anesthesia for Fetal Surgery and Other Fetal Therapies</i>
7 9	<i>Anesthesia for Orthopedic Surgery</i>
8 0	<i>Geriatric Anesthesia</i>
8 1	<i>Anesthesia for Trauma</i>
8 2	<i>Anesthesia and Prehospital Emergency and Trauma Care</i>
8 3	<i>The Role of the Anesthesia Provider in Natural and Human-Induced Disasters</i>
8 4	<i>Anesthesia for Eye Surgery</i>
8 5	<i>Anesthesia for Ear, Nose, and Throat Surgery</i>
8 6	<i>Administration of Anesthesia by Robots</i>
8 7	<i>Anesthesia for Robotically Conducted Surgery</i>
8 8	<i>Anesthesia for Laser Surgery</i>
8 9	<i>Ambulatory (Outpatient) Anesthesia</i>
9 0	<i>Non-Operating Room Anesthesia</i>
9 1	<i>Clinical Care in Extreme Environments: At High and Low Pressure and in Space</i>
9 2	<i>Regional Anesthesia in Children</i>
9 3	<i>Pediatric Anesthesia</i>
9 4	<i>Anesthesia for Pediatric Cardiac Surgery</i>
9 5	<i>Pediatric and Neonatal Intensive Care</i>
9 6	<i>The Postanesthesia Care Unit</i>
9 7	<i>Postoperative Nausea and Vomiting</i>
9 8	<i>Acute Postoperative Pain</i>
9 9	<i>Cognitive Dysfunction and Other Long-term Complications of Surgery and</i>

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	<i>Anesthesia</i>
1 0 0	<i>Postoperative Visual Loss</i>
1 0 1	<i>Critical Care Anesthesiology</i>
1 0 2	<i>Critical Care Protocols and Decision Support</i>
1 0 3	<i>Respiratory Care</i>
1 0 4	<i>Nitric Oxide and Other Inhaled Pulmonary Vasodilators</i>
1 0 5	<i>Neurocritical Care</i>
1 0 6	<i>Nutrition and Metabolomics</i>
1 0 7	<i>Extracorporeal Support Therapies</i>
1 0 8	<i>Cardiopulmonary Resuscitation: Basic and Advanced Life Support</i>
1 0 9	<i>Electrical Safety in the Operating Room</i>
1 1 0	<i>Environmental Safety and Chemical Dependency</i>
1 1 1	<i>Statistical Methods in Anesthesia</i>
1 1 2	<i>Evaluation and Classification of Evidence for the ASA Clinical Practice Guidelines</i>