

APRIL 2001

[KD 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss aetiology and management of peri operative hypotension. (25)
 2. Discuss the pathophysiology and management of ARDS. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Air embolism
 - (b) Macintosh
 - (c) Day care surgery
 - (d) Pipercuronium
 - (e) Awareness during anaesthesia.
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NOVEMBER 2001

[KE 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

ANAESTHESIOLOGY INCLUDING CRITICAL CARE,
RECENT ADVANCES IN ANAESTHESIA

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the preanaesthetic evaluation and peri operative Anaesthetic management of a case of repair of Congenital Diaphragmatic Hernia. (25)
 2. What is C.P.C.R.? Discuss in detail about Basic Life Support. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Diabetic keto acidosis
 - (b) Propofol
 - (c) Laryngeal Mask Airway
 - (d) Rocuronium
 - (e) Minimum Alveolar concentration.
-

MARCH 2002

[KG 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE RECENT ADVANCES IN
ANAESTHESIOLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the preanaesthetic evaluation and Anaesthetic Management of a case of repair cleft palate? (25)
 2. Describe in detail the forms, causes and diagnosis of cardiac arrest. Discuss in brief the treatment of cardiac arrest. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Anion gap.
 - (b) Midazolam.
 - (c) Modified Mallampati classification.
 - (d) Pipecuronium.
 - (e) Filling ratio.
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SEPTEMBER 2002

[KH 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. What are the signs and symptoms of organophosphorus poisoning?

How will you manage a case of organophosphorus poisoning in the intensive care unit. (25)

2. Give an account of the recent advances in Cardiopulmonary resuscitation. (25)

3. Write short notes on : (5 × 10 = 50)

(a) Pulseoximetry.

(b) Anaesthesia for Electro convulsive therapy (ECT).

(c) Glasgow comascale.

(d) Atrial fibrillation

(e) Hoffman elimination.

APRIL 2003

[KI 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Classify Shock and discuss the management of shock in intensive care unit. (25)
 2. Discuss the anaesthesia for Day-stay surgeries. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Do not resuscitate order
 - (b) Oxygen toxicity
 - (c) Dezocine
 - (d) Xenon
 - (e) Selective non dependent lung CPAP.
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OCTOBER 2003

[KJ 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions given on the first page of the M.C.Q. Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 x 15 = 30)

(1) Describe the pathophysiology of ARDS (Adult respiratory distress syndrome) and briefly write on ventilatory strategies.

(2) Discuss the pathophysiology in a head injured patient and mention current neuroprotective strategies for managing head injury.

II. Short notes :

(10 x 5 = 50)

(1) Bi-spectral index (BIS).

(2) Nitric Oxide.

(3) Inverse ratio ventilation.

(4) Gate control theory for pain.

(5) Recent advances in day-stay anaesthesia.

(6) Enteral nutrition.

(7) Vasopressin.

(8) Diagnosis of brain death.

(9) Automatic implantable cardioverter defibrillator.

(10) Intubating L.M.A.

AUGUST 2004

[KL 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Describe High Frequency ventilation and its clinical applications.

(2) Describe Arterial Blood Gases and how to interpret a sample.

II. Short Notes : (10 × 5 = 50)

(a) Glasgow coma score.

(b) Under water seal.

(c) Saint Thomas solution.

(d) Thoracic Epidural Anaesthesia.

(e) Pulmonary oxygen toxicity.

(f) Role of Trace elements in ICU Nutrition.

(g) Neuroleptanalgesia.

(h) Mismatch blood transfusion.

(i) Loop Diuretics.

(j) Activated clotting time.

FEBRUARY 2005

[KM 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Time : Three hours

Maximum : 100 marks

Theory : Two hours and

Theory : 80 marks

forty minutes

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(2 × 15 = 30)

(1) Describe the intensive care management of a young female patient who complains of numbness, tingling paraesthesia and progressing ascending muscular weakness of both the lower limbs.

(2) How do you evaluate the prognosis after hypoxic brain damage? Add a note on possible neurological recovery?

II. Short notes :

(10 × 5 = 50)

- (a) Intraoperative blood salvage
- (b) Criteria for initiating weaning from mechanical ventilator and extubation criteria
- (c) Bilevel positive airway pressure ventilation
- (d) Subclavian venous cannulation
- (e) Pharyngeal Tracheal Lumen Airway (PTLA)
- (f) Remifentanyl
- (g) Amniotic fluid embolism
- (h) Myofascial pain syndrome
- (i) Iliac ganglion block
- (j) Oral analgesic program for cancer pain relief.

MARCH 2006

[KO 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

(New Regulations)

Part II

**Paper II — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(2 × 15 = 30)

(1) Discuss the management and problems associated with patients on long term ventilation in an ICU.

(2) Describe the anaesthetic management and problems in a 3 year old child for bronchoscopy.

II. Short notes :

(10 × 5 = 50)

- (a) Cardiogenic shock
- (b) Nitric oxide
- (c) Swan Ganz Catheter
- (d) Cis-atracurium
- (e) Massive blood transfusion
- (f) Oxyhaemoglobin dissociation curve
- (g) BIS monitoring
- (h) Hepatorenal syndrome
- (i) Autoregulation
- (j) Hypokalaemia.

MARCH 2007

[KQ 1524]

Sub. Code : 3032

**DIPLOMA IN ANAESTHESIOLOGY (D.A)
EXAMINATION.**

Paper III — ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND RECENT ADVANCES IN ANAESTHESIA

Common to

(Candidates admitted from 1993-94 onwards)

And

(Candidates admitted from 2004-05 onwards)

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Discuss recovery from general anesthesia. Add a note on Fast Tracking Concept and also on controversies concerning conventional discharge criteria. (20)

(2) Discuss "Transfusion related acute lung injury". (T.R.A.L.I) (15)

(3) Describe the clinical tests to evaluate sympathetic blockade. Discuss indications, technique and complications of lumbar sympathetic block. (15)

II. Write short notes on : (6 × 5 = 30)

(a) Aerosol therapy in I.C.U.

(b) Anaesthetic management of a patient on total parenteral nutrition.

(c) Hypophosphatemia.

(d) Monitoring response to cardiopulmonary resuscitation.

(e) Central anticholinergic syndrome.

(f) Complications due to lipid formulation of propofol.

MARCH 2008

[KS 1524]

Sub. Code : 3032

DIPLOMA IN ANAESTHESIOLOGY (D.A.) EXAMINATION.

Paper III — ANAESTHESIOLOGY INCLUDING CRITICAL CARE
AND RECENT ADVANCES IN ANAESTHESIA

(Common to all regulations)

Q.P. Code : 343032

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay questions on : (2 × 20 = 40)
- (1) Discuss the pathophysiology of septic shock. What are the recent developments in correction of tissue hypoxia in septic shock?
 - (2) Discuss in detail about ventilator induced pneumonia and its management.
- II. Short notes on : (10 × 6 = 60)
- (1) Pulmonary oedema.
 - (2) Management of post tonsillectomy bleed.
 - (3) Inverse ratio ventilation.
 - (4) Newer insulin.
 - (5) Role of Magnesium in anaesthesia.
 - (6) Brain death.
 - (7) Hepato renal syndrome.
 - (8) TEE.
 - (9) Anaesthesia for ECT.
 - (10) Glasgow Coma Scale (GCS).
-

September 2008

[KT 1524]

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

**Paper III – ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIA**

(Common to all candidates)

Q.P. Code : 343032

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss in detail the ICU management of a patient on long term mechanical ventilation.
2. Discuss in detail the pre-operative preparation, anaesthetic management and problems encountered during pheochromocytoma surgery.

II. Write short notes on :

(10 X 6 = 60)

1. Disseminated intravascular coagulation.
 2. Coeliac plexus block.
 3. Deliberate hypotension.
 4. Low flow anaesthesia.
 5. Calcium channel blockers.
 6. BIS monitoring.
 7. Nitric oxide.
 8. Epidural blood patch
 9. Deep vein thrombosis.
 10. Fluid Resuscitation in burns injury.
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MARCH -2009

[KU 1524]

Sub. Code: 3032

**DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.
Paper III – ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIA**

(Common to all candidates)

Q.P. Code : 343032

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Discuss the anaesthetic management in off pump coronary artery by pass surgery.
2. Describe preparation and management of anaesthesia for kidney recipient.

II. Write short notes on : (10 X 6 = 60)

1. Total Parenteral Nutrition.
2. Intra osseous fluid therapy.
3. Airway assessment methods.
4. Problems of obesity.
5. Anaesthesia for paediatric MRI.
6. Airway pressure release ventilation.
7. Beta adrenergic blockers in anaesthesia.
8. Treatment of hypovolemic shock.
9. Pulmonary embolism
10. Re-breathing bag.

September - 2009

[KV 1524]

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION.

**Paper III – ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIA**

(Common to all candidates)

Q.P. Code : 343032

Time : Three hours

Maximum : 100 marks

**Draw suitable diagram wherever necessary.
Answer ALL questions.**

I. Essay questions : (2 X 20 = 40)

1. Acute lung injury – Pathophysiology, diagnosis and management in ICU.
2. Hazards of massive blood transfusion.

II. Write short notes on : (10 X 6 = 60)

1. Controlled oxygen therapy.
2. Role of vasopressin in ACLS.
3. Permissive hypercapnia.
4. Non invasive ventilation.
5. Respiratory alkalosis.
6. Plasma volume expanders.
7. HELLP syndrome.
8. Nitric oxide.
9. Intra pleural blockade.
10. Heat and moisture exchanger.

March 2010

[KW 1524

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN ANAESTHESIA**

(Common to all candidates)

Q.P. Code : 343032

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss in detail anaesthetic problems in a 50 year old obese male for laproscopic cholecystectomy.
2. Discuss the causes and management of delayed recovery from anaesthesia.

II. Write short notes on :

(10 x 6 = 60)

1. Awake intubation.
2. HELLP syndrome.
3. Sugamadex.
4. Humidification.
5. Anaesthesia for post tonsillectomy bleed.
6. Artificial blood.
7. Regional block for inguinal hernia.
8. Thyroid crisis.
9. Spinal opiates.
10. Ketone bodies.

[KX 1524]

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (D.A.) EXAMINATION.

Part II-Paper II for Candidates admitted from 2008-09 onwards

And

Paper III for Candidates admitted from 2004-05 to 2007-08

**ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Q.P. Code : 343032

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. What are the various methods of Labor analgesia? Discuss in detail continuous epidural analgesia technique and also anticipated complications.
2. Discuss the anesthetic management of a 7 year old boy posted for tonsillectomy.

II. Write short notes on :

(10 X 6 = 60)

1. Ceoliac plexus block.
2. Management of brain dead organ donor.
3. TIVA.
4. Pressure support ventilation.
5. Controlled oxygen therapy in COPD.
6. Obstructive sleep apnoea.
7. Regional block for inguinal hernia.
8. Low flow anesthesia.
9. Ventilator associated pneumonia.
10. Anesthesia for foreign body in the bronchus.

APRIL 2011

[KY 1524]

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIA**

Q.P. Code : 343032

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Describe the causes, signs, symptoms, diagnosis and management of patients having “Metabolic acidosis”.	11	35	15
2. A 10 year old child is admitted to the hospital with a H/o Cobra bite over his face, an hour ago. Discuss the assessment of this patient for the potential complications and plan for the intensive care management of this patient.	11	35	15

II. Write notes on :

1. APACHE Scoring systems.	4	10	7
2. Complications of parenteral nutrition.	4	10	7
3. Swan-Ganz Catheter.	4	10	7
4. Physiological changes in the aged.	4	10	7
5. Apnoeic mass movement oxygenation.	4	10	7
6. Types of high frequency ventilation and its uses.	4	10	7
7. General principles in providing anaesthesia at high altitude.	4	10	7
8. Organ protection during repair of Thoracoabdominal aortic aneurysm.	4	10	7
9. Detection and management of major blood transfusion reaction.	4	10	7
10. Prone ventilation.	4	10	7

October 2011

[KZ 1524]

Sub. Code: 3032

**DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL CARE
AND RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code : 343032

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|---------|----|
| 1. A case of avascular necrosis left femoral head posted for THR patient suffers from rheumatoid arthritis and diabetes mellitus. Discuss anaesthetic management and post operative pain relief. | 11 | 35 min. | 15 |
| 2. Six year old child with TOF posted for total correction. Discuss anaesthetic management in detail. | 11 | 35 min. | 15 |

II. Write notes on :

- | | | | |
|--|---|---------|---|
| 1. ARDS. | 4 | 10 min. | 7 |
| 2. SUGAMMADEX. | 4 | 10 min. | 7 |
| 3. Oxygen therapy. | 4 | 10 min. | 7 |
| 4. Implantable cardioverter defibrillator. | 4 | 10 min. | 7 |
| 5. Pneumo peritoneum. | 4 | 10 min. | 7 |
| 6. Brain protection. | 4 | 10 min. | 7 |
| 7. ICU protocol for comatose patients. | 4 | 10 min. | 7 |
| 8. High frequency ventilation. | 4 | 10 min. | 7 |
| 9. Total spinal. | 4 | 10 min. | 7 |
| 10. Ankylosing spondylitis. | 4 | 10 min. | 7 |

[LA 1524]

April 2012

Sub. Code: 3032

**DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code : 343032

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss the pathophysiology of adult respiratory distress syndrome and its management.	16	35	15
2. Discuss the anaesthetic management of a primi para with rupture of uterus.	16	35	15

II. Write notes on :

1. Alcuronium.	4	10	7
2. Anaesthesia in high altitude.	4	10	7
3. Apnea test in brain death.	4	10	7
4. Down's syndrome.	4	10	7
5. Intra pleural analgesia.	4	10	7
6. Positive end expiratory pressure.	4	10	7
7. Pathophysiology of renal failure.	4	10	7
8. Post-operative shivering.	4	10	7
9. Valsalva maneuver.	4	10	7
10. HELLP syndrome.	4	10	7

[LB 1524]

OCTOBER 2012

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN ANAESTHESIA
Q.P. Code : 343032

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Describe the signs, symptoms and management of Organophosphorus compound poisoning.	16	35	15
2. Current concepts in the management of poly trauma Patients.	16	35	15

II. Write notes on :

1. Dantrolene sodium.	4	10	7
2. FASTHUG protocol.	4	10	7
3. Inflammatory response to Cardio-Pulmonary bypass.	4	10	7
4. Oxygen Cascade.	4	10	7
5. Total parenteral Nutrition.	4	10	7
6. Capnography in mechanical ventilation.	4	10	7
7. HIV and anaesthesia.	4	10	7
8. Management of Anaphylaxis.	4	10	7
9. Causes, diagnosis and management of Air embolism.	4	10	7
10. Post-operative pain relief.	4	10	7

(LC 1524)

APRIL 2013

Sub. Code: 3032

**DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND RECENT
ADVANCES IN ANAESTHESIA**

Q.P. Code : 343032

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Current management of COPD patient with respiratory failure
2. Anesthetic challenges for bariatric surgery.

II. Write notes on:

(10X7=70)

1. Types and functioning of Oxygen analysers
2. Assessment of shock and management in pregnant trauma victim
3. Techniques of weaning from mechanical ventilation
4. Gabapentin – uses and mechanism of action
5. Techniques of axillary block
6. Post operative delirium
7. Methods of Oxygen therapy
8. Hypertension during anaesthesia and immediate post-operative period and its management
9. High anion gap acidosis-causes and management
10. Criteria for discharge of pediatric day care procedures

(LD 1524)

OCTOBER 2013

Sub. Code: 3032

**DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND RECENT
ADVANCES IN ANAESTHESIA**

Q.P. Code : 343032

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Classify shock and discuss the management of anaphylactic shock in ICU.
2. Discuss the causes of delayed recovery from anaesthesia and the discharge criteria in an out-patient anaesthesia set-up.

II. Write notes on:

(10X7=70)

1. Jet ventilation.
2. HELLP syndrome.
3. Humidification.
4. Deep vein thrombosis.
5. Cardiac index.
6. APACHE scoring.
7. I-Gel.
8. Physiology of one lung ventilation.
9. Brain death.
10. Management of a burns victim.

(LE 1524)

APRIL 2014

Sub. Code:3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. What are the causes of Adult Respiratory Distress Syndrome. Discuss the ventilatory strategies in the management of ARDS.
2. Enumerate the indications of Tracheostomy. Describe the different techniques of performing percutaneous dilatational tracheostomy.

II. Write notes on:

(10X7=70)

1. Causes of Hypoxemia.
2. Weaning from mechanical ventilation.
3. Diabetic Autonomic Neuropathy.
4. Causes of delayed recovery from anaesthesia.
5. Post operative pulmonary complications.
6. BLS Algorithm (BASIC LIFE SUPPORT).
7. GOLDEN HOUR in Trauma.
8. Internal Jugular Vein Cannulation.
9. Role of Vasopressors in Sepsis.
10. Cardio version.

(LF 1524)

OCTOBER 2014

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the perioperative management of dialysis patients posted for incidental surgery.
2. Discuss the initial assessment and management of a Polytrauma patient.

II. Write notes on:

(10 x 7 = 70)

1. Diastolic dysfunction.
2. Transdermal Opioids.
3. CPAP.
4. Cyclo-oxygenase -2 inhibitors.
5. Jehovah's witness.
6. Disseminated Intravascular coagulation.
7. Sedation Scale.
8. Arterial Pulse Power analysis.
9. Intubating Laryngeal Mask Airway (LMA).
10. Thyroid Storm.

**DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code : 343032

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. What are the criteria for diagnosis of systemic inflammatory response syndrome (SIRS)?
Discuss the principles of management in a patient of septic shock admitted in ICU.
2. Define Morbid Obesity. Outline the intraoperative anaesthetic considerations and postoperative complications in a patient scheduled for bariatric surgery.

II. Write notes on:

(10 x 7 = 70)

1. Environmental hazards in the operation theatre.
2. Bedside Pulmonary Function Tests.
3. Post operative shivering.
4. Monitored Anaesthesia care.
5. Remifentanyl.
6. Nosocomial infections in ICU.
7. Revised Cardiac Risk Index.
8. Tight control of blood glucose in ICU patients – merits and demerits.
9. Hypokalemia.
10. Ultrasonography – Principles and its use in Anaesthesia.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION
ANAESTHESIOLOGY INCLUDING CRITICAL CARE
AND RECENT ADVANCES IN ANAESTHESIA

Q.P. Code : 343032

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Define and classify shock. Discuss the recent guidelines for the management of septic shock.
2. Describe the safety features in MRI compatible Modern anaesthesia Machines. Discuss the challenges in MRI room (Anaesthesia for MRI).

II. Write notes on:

(10 x 7 = 70)

1. Role of anaesthesiologist in organ donation.
2. Parenteral nutrition.
3. CPR – recent guidelines.
4. Organophosphorous poisoning.
5. Tests for monitoring perioperative coagulation.
6. Direct arterial pressure monitoring.
7. Hypothermia.
8. Levosimendan.
9. Weaning modes of mechanical ventilation.
10. Pneumothorax.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the causes, diagnosis and management of ventricular fibrillation.
2. Define Body mass index (BMI). Classify obesity and discuss the anaesthetic considerations in a morbidly obese patient posted for bariatric surgery.

II. Write notes on:

(10 x 7 = 70)

1. Management of Hepatic encephalopathy.
2. Glasgow coma scale.
3. Awareness and anaesthesia.
4. Non invasive ventilation.
5. CPR (Cardio Pulmonary Resuscitation) of term pregnant patient.
6. Tests for coagulation profile.
7. Pacemaker – Anaesthetic implications.
8. Percutaneous dilatational tracheostomy.
9. Sugammadex.
10. Lactic acidosis.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the problems and management of II degree 70% burns in ICU.
2. Discuss the management of a Patient on Mechanical ventilation.

II. Write notes on:

(10 x 7 = 70)

1. Cardiac out put monitoring and its role in ICU.
2. Renal regulation of pH.
3. Cardiogenic shock.
4. Subclavian vein cannulation.
5. Difficult airway algorithm.
6. Clinical Trials and their importance.
7. Enteral nutrition.
8. Aldrete recovery score.
9. Anaesthesia for modified ECT.
10. Carbon monoxide poisoning.

(LK 1524)

MAY 2017

Sub. Code:3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Critical care management of $H_1 N_1$ patient.
2. Write in detail about the assessment and management of a polytrauma patient.

II. Write notes on:

(10 x 7 = 70)

1. Scavenging system.
2. Anaesthesia for drug abusers.
3. Oxygen concentrators.
4. Anaesthesia for ovum retrieval.
5. Delayed recovery following general anaesthesia.
6. Post-operative cognitive dysfunction.
7. Diagnosis of brain death.
8. Tachyarrhythmias.
9. Pre-emptive analgesia.
10. Hyponatremia.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the preparation and optimisation of a brain dead donor for organ retrieval.
2. Discuss anaesthesia for Day-Care surgeries and the discharge criteria.

II. Write notes on:

(10 x 7 = 70)

1. Video – Laryngoscopy.
2. Pressure support ventilation.
3. BIS monitoring.
4. Hazards of blood transfusion.
5. Aerosol therapy in ICU.
6. Automated External Defibrillators.
7. Local Anaesthetic systemic Toxicity.
8. Triage.
9. Levobupivacaine.
10. Steroid Therapy and Anaesthesia.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P.Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Etiology, pathophysiology and management of Adult Respiratory Distress Syndrome.
2. Intensive care management of a patient with Cobra bite

II. Write notes on:

(10 x 7 = 70)

1. Anaphylaxis under anaesthesia.
2. Post-operative jaundice.
3. Extra corporeal membrane oxygenation.
4. Intra operative patient warming devices.
5. The green anaesthetist.
6. Deep vein thrombosis – prophylaxis.
7. Anaesthesia for Hysteroscopy.
8. Ventilator associated pneumonia.
9. Metabolic acidosis.
10. Perioperative cardiac arrest.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the classification and pathophysiology and management of shock.
2. Write in detail about clinical features, diagnosis and treatment of myasthenia gravis in ICU.

II. Write notes on: **(10 x 7 = 70)**

1. Post operative Nausea and vomiting.
2. Hypothermia.
3. Transfusion related acute lung injury.
4. Disseminated intravascular coagulation.
5. Milrinone.
6. Cardioversion.
7. BIPAP.
8. Plasmalyte-A.
9. Thyrotoxic crisis
10. Sedatoin in ICU.

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail the clinical features, patho-physiology and management of Acute Pulmonary edema.
2. Describe in detail the ICU management of organophosphorus poisoning and its complications.

II. Write notes on: **(10 x 7 = 70)**

1. Status Epilepticus.
2. Carbon monoxide poisoning.
3. Permissive Hypercapnia.
4. Hyponatremia.
5. Weaning criteria.
6. Patient controlled analgesia.
7. Percutaneous dilatational tracheostomy.
8. Levosimendan.
9. Inhaled anaesthetic agent monitors.
10. Obstructive sleep apnea (OSA).

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Define shock. Discuss in detail the pathophysiology and clinical features of different types of shock and management of Septic shock.
2. Discuss in detail the indications, protocols and complications of massive blood transfusion.

II. Write notes on: **(10 x 7 = 70)**

1. Status Asthmaticus.
2. Acetaminophen poisoning.
3. CPCR in a parturient.
4. Magnesium.
5. Role of surfactant in preterm babies.
6. Weaning modes in ICU.
7. Flail chest.
8. Sedation in ICU.
9. Management of Acute Anteroseptal Infarction.
10. Newer antiplatelet drugs.

[LQ 1524]

**AUGUST 2020
(MAY 2020 SESSION)**

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Methods of measurement of intra operative bleeding? Discuss the autologous blood salvage in the pre, intra and post operative period.
2. Describe in detail about the various modes of ventilation including weaning modes, non invasive modes of ventilation and its implications.

II. Write notes on:

(10 x 7 = 70)

1. Thrive
2. Extra corporeal membrane oxygenation
3. Smoke inhalation injury
4. Pendeluft
5. Hyper baric oxygen therapy
6. Vasopressin use in ICU
7. Mods score
8. Forced alkaline diuresis
9. Treatment of cyanide toxicity
10. Peri operative management of patients with pace makers

[LS 1524]

**NOVEMBER 2020
(OCTOBER 2020 SESSION)**

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Types of embolism, causes of venous thromboembolism? Perioperative management of a patient on anticoagulants?
2. Difficult airway algorithm. Management of unanticipated difficult airway?

II. Write notes on:

(10 x 7 = 70)

1. Trali
2. Ventilation associated pneumonia
3. Saps score
4. Total parenteral nutrition
5. Oxygen toxicity
6. Xenon
7. Endotoxic shock & its management
8. Quadratus lumborum block
9. Bronchial hygiene therapy
10. Prone ventilation

(DA 0721)

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. a) What do you mean by brain dead? Methods of certifying brain dead?
b) Discuss the anaesthetic management of brain dead patient for organ harvesting?
2. What are current concepts in management of polytrauma patient?

II. Write notes on:

(10 x 7 = 70)

1. APACHE scoring.
2. Post op cognitive dysfunction causes and management.
3. Dantrolene sodium.
4. Revised cardiac risk index.
5. Airway pressure release ventilation.
6. Cardio pulmonary resuscitation in adults – outline the recent guidelines in ACLS.
7. Total parenteral nutrition.
8. Controlled oxygen therapy in COPD.
9. Extra Corporeal Membrane Oxygenator.
10. Tight control of blood sugar in ICU, merits and demerits.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[DA 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 3032

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND
RECENT ADVANCES IN ANAESTHESIA**

Q.P. Code: 343032

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define body mass index? Discuss anaesthetic management in a morbidly obese patient posted for bariatric surgery?
2. Describe the safety features in an MRI compatible anaesthesia work station. Discuss the changes faced during anaesthesia for MRI.

II. Write notes on:

(10 x 7 = 70)

1. Sugamadex.
2. Xenon in Anaesthesia.
3. Nosocomial infections in ICU.
4. High frequency ventilations in anaesthesia.
5. Albumin – indications in anaesthesia.
6. Scorpion sting in adults and paediatrics.
7. Adductor canal block. Indications methodology via ultrasound and complications.
8. Anaesthesia at high altitudes, outline the general principles.
9. Diabetic autonomic neuropathy? Outline the tests to identify the same and discuss the management.
10. Outline the difficult airway algorithm.
