

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

(DA 0524)

MAY 2024

Sub. Code: 4001

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

PAPER I – BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY

Q.P .Code: 344001

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the function of Liver. Detail the liver function tests and their relevance to Anaesthesia.
2. Describe the anatomy of larynx in adults and children. Explain with diagram the various nerve palsies of larynx.

II. Write notes on:

(10 x 7 = 70)

1. Rocuronium.
2. Oxyhemoglobin dissociation curve.
3. Hagen Poiseuille equation and its Anaesthetic implications.
4. W.T.G Morton.
5. Describe the anatomy of Coronary arterial blood supply.
6. Etomidate.
7. Phase 2 block.
8. Desflurane.
9. Bispectral index.
10. Airway Assessment.

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

(DA 1224)

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

Sub. Code: 4001

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

PAPER I – BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY

Q. P. Code: 344001

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify the anti-hypertensive drugs. Discuss in detail about pharmacology of each class of drugs and its anaesthetic importance.
2. What is oxygen cascade? Write in detail on the physiology of oxygen transport and factors affecting the oxygen transport.

II. Write notes on:

(10 x 7 = 70)

1. Capnography.
2. Bain circuit.
3. Carbetocin vs Oxytocin.
4. Humidification.
5. John snow.
6. What is cerebral perfusion pressure? Describe factors affecting CPP.
7. Cryoprecipitate.
8. Hepatic Blood Flow and its determinants.
9. Isoflurane.
10. Bed side pulmonary function tests.

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

(DA 1025]

OCTOBER 2025

Sub. Code: 4001

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

PAPER I – BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY

Q. P. Code: 344001

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify and discuss the pharmacology of antihypertensive drugs. Add a note on its effects on anesthesia.
2. Discuss the anatomy of brachial plexuses with suitable diagram and various sites of brachial plexuses block.

II. Write notes on:

(10 x 7 = 70)

1. Gas laws and its application in Anaesthesia.
2. Placental barrier.
3. Sir Ivan Magill.
4. Minimum alveolar concentration and its relevance to Anaesthesia.
5. First rib.
6. Flow meter assembly.
7. Pulse oximeter.
8. Central anticholinergic syndrome.
9. Haemodynamic effects of induction agents.
10. Anatomy of neuromuscular junction.
