

Aug - 2028

**BLDE (DEEMED TO BE UNIVERSITY)
POST GRADUATE DEGREE EXAMINATION**

[Time: 3 Hours]

[Max. Marks: 100]

**MD ANAESTHESIA – PAPER - I
QP CODE: 5053**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss the anatomical changes of the airway in pregnant patients and discuss how these influence airway management and intubation during obstetric anesthesia.
2. Explain the principles of gas laws (Boyle's, Dalton's, Henry's) and apply them to the delivery of anesthetic gases and drug uptake during anesthesia.

Short Essay

6x10=60 Marks

3. Describe the innervation of the uterus and pain pathways in labor.
4. Outline the physiology of neuromuscular transmission.
5. Classify intravenous anesthetic agents with a note on Ketamine.
6. Explain the principles of monitoring pulse oximetry and capnography.
7. Write a note on biochemical basis of drug metabolism in the liver.
8. Briefly discuss the history of anesthesia and major milestones.

19/08

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[Time: 3 Hours]

[Max. Marks: 100]

**MD ANAESTHESIA – PAPER - II
QP CODE: 5054**

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss the anaesthetic management of a patient with postpartum haemorrhage, including resuscitation, choice of anaesthesia, and multidisciplinary coordination.
2. Discuss the anaesthetic considerations in a patient undergoing craniotomy for intracranial tumour, focusing on intracranial pressure management.

Short Essay

6x10=60 Marks

3. Describe the patho-physiology and management of shock in anaesthesia practice.
4. Outline the methods of airway management in difficult airway.
5. Write a note on epidural analgesia in labour.
6. Discuss anaesthetic considerations in patient with chronic obstructive pulmonary disease (COPD).
7. Describe anaesthetic considerations in orthopaedic surgeries requiring tourniquet use.
8. Write a note on local anaesthesia techniques in ophthalmic surgery.

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**MD ANAESTHESIA – PAPER - III
QP CODE: 5055**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss anesthetic management of a patient with coagulopathy undergoing surgery, including preoperative optimization and intraoperative strategies.
2. Discuss the principles, techniques, and complications of peripheral nerve blocks, and evaluate their role in modern anesthetic practice.

Short Essay

6x10=60 Marks

3. Discuss airway management in an infant posted for laparotomy.
4. Outline the impact of renal disease on fluid and electrolyte balance.
5. Write a note on anesthesia for patients with adrenal disorders.
6. Discuss blood transfusion practices in anesthesia.
7. Outline anesthesia considerations in ENT surgeries (e.g., tonsillectomy).
8. Write a note on complications of regional anesthesia and their management.

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**MD ANAESTHESIA – PAPER - IV
QP CODE: 5056**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss management of cancer pain, including pharmacological and interventional approaches.
2. Discuss the management of acute respiratory distress syndrome (ARDS) in ICU, including ventilatory strategies and supportive care.

Short Essay

6x10=60 Marks

3. Describe the physiology and pathways of pain transmission.
4. Outline the use of opioids in anesthesia and pain relief.
5. Write a note on sedation protocols in ICU.
6. Describe fluid therapy in critically ill patients.
7. Outline recent advances in intensive care medicine.
8. Write a note on nerve blocks in pain management.