

2/7/26
PM

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Anaesthesia Technology

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER - I (Basic Techniques of Anaesthesia)

QP CODE: 8450

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain the preparation and positioning of a patient for spinal anaesthesia in lateral position.
Describe the types of spinal needles used.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write a note on Sevoflurane and its advantages.
3. Describe Thiopentone Sodium and its clinical uses.
4. Explain the working principles of central gas pipeline systems.
5. Write a short note on maintenance and cleaning of laryngoscopes.
6. Describe the equipments used in pediatric anaesthesia.
7. Explain the types and indications of regional blocks in upper limb.
8. Describe the preparation of lignocaine for local anaesthesia.
9. Explain the importance and steps of post-operative monitoring.
10. Write a short note on prevention of explosion risks in operation theatre.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define Preoxygenation.
12. List any three intravenous induction agents.
13. Mention three advantages of Laryngeal Mask Airway.
14. Name three complications of endotracheal intubation.
15. What is an epidural catheter?
16. Mention any three uses of Suction Apparatus.
17. What is the function of flow meters in anesthesia machine?
18. Define Tidal Volume.
19. What are the uses of oxygen therapy?
20. Mention three examples of crystalloids.
21. Define Informed Consent and state why it is important.

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IV SEMESTER

PAPER - II (Medical Disease Influencing Choice of Anaesthesia)

QP CODE: 8451

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Enumerate mitral stenosis? Mention signs, symptoms and anesthetic management of mitral stenosis patient

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. ICP (Intra cranial Pressure).
3. Metabolic acidosis.
4. Hyperkalaemia treatment
5. Draw neat labelled diagram of bronchopulmonary segments
6. Child pugh classification
7. Liver function tests
8. What is thyrotoxicosis and write its anesthetic implications
9. Normal CSF flow
10. What is hypertension? classify hypertension and explain anesthetic considerations

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Describe anemia and mention different types of anemia
12. Hypoxia
13. What is BMI classify obesity according to BMI
14. Type I and type II respiratory failure. What are complications of c cirrhosis?
15. Blood brain barrier.
16. What are complications of cirrhosis
17. What is hemoglobin mention its normal range
18. Describe any three Mention 3 signs of liver failure
19. What are common insulin preparation
20. What is bronchial asthma? Mention its risk factors, signs and symptoms.
21. Signs and symptoms of meningitis

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IV SEMESTER

PAPER - III (Medicine Relevant to OT Technology)

QP CODE: 8452

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Classify antihypertensive drugs. Explain briefly about metoprolol

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are different routes of administration of adrenaline? write about uses and dosages of adrenaline
3. Metaclopramide
4. Classify benzodiazepines. Add a note on diazepam
5. What are different routes of drug administration
6. Cerebral edema management.
7. Classify non depolarizing muscle relaxants. explain atracurium
8. Fentanyl- mechanism of action , uses
9. Dexamethasone – dosage and uses
10. Classify diuretics. Add a note on furosemide.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name 3 antiemetic drugs
12. What are side effects of succinyl choline
13. Name reversal agents
14. Atropine uses and side effects
15. Uses of hydrocortisone
16. Different preparations of lignocaine
17. What are sites for IM injection?
18. What are uses of ketamine
19. What are uses of tramadol
20. Uses of glycopyrolate
21. What are opioids used inside OT

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800

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Anaesthesia Technology

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER - IV (ATOT Directed Clinical Education II)

QP CODE: 8453

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Describe the preoperative preparation and anesthesia considerations in a patient with chronic obstructive pulmonary disease (COPD) posted for ENT surgery.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write in detail about preoperative assessment for orthopedic trauma surgery.
3. Explain postoperative care and monitoring after general surgery.
4. Describe the airway assessment steps in ENT surgeries.
5. Explain the management of electrolyte imbalance before surgery.
6. Write short notes on preparation of instruments and trolley for orthopedic operations.
7. Describe the preparation and precautions for patients with anemia.
8. Write a note on the importance of obtaining patient consent and counseling.
9. Explain the complications of poor sterilization practices.
10. Describe the types of anesthesia used in ENT surgeries.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Mention three causes of postoperative infection.
12. List three types of orthopedic surgeries.
13. Define asepsis.
14. Write any three functions of the liver.
15. Mention three important points in patient identification before surgery.
16. Write three uses of mannitol.
17. Define cerebral edema.
18. Mention three signs of hypovolemia.
19. What are the functions of the kidney?
20. Define electrolyte imbalance.
21. Mention three complications of obesity in anesthesia.