

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. Describe how to prepare a patient for epidural anesthesia while on sitting position. Explain the drugs used in epidural anesthesia

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe the medications and various adjuvants used in spinal anesthesia.
3. List the inhalational anesthetic agents used in the operating theater and include a note on Isoflurane.
4. Provide a concise overview of Propofol.
5. Briefly write a note on handwashing technique.
6. Compare the Laryngeal Mask Airway (LMA) with an endotracheal tube.
7. Steps of Basic Life Support (BLS).
8. Surgical safety checklist
9. Discuss the classification of spinal needles and provide examples.
10. Provide a detailed description of the components of an endotracheal tube with a clear, labeled diagram. Also, include an overview of different types of endotracheal tubes.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Describe the different forms of lignocaine available.
12. What are the uses of Magill's forceps?
13. What are different positions in anesthesia
14. Classify supraglottic airway devices
15. Informed consent
16. Name three different types of nerve blocks used in the upper limbs.
17. Name 3 local anesthetic drugs.
18. Preoperative evaluation of patient prior to surgery.
19. Name the reversal agents
20. what are blood components
21. What is the Pin-Index Safety System? Provide some examples of its application.

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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. Mention major endocrine glands in body? Enumerate diabetes mellitus with respect to signs and symptoms and etiology

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Name major electrolytes in body and their normal values
3. What is thyrotoxicosis and write its anesthetic implications
4. Metabolic acidosis.
5. Normal CSF flow
6. Liver function tests
7. Draw neat labelled diagram of bronchopulmonary segments
8. Hypertension – classification and anesthetic implication
9. Child pugh classification
10. Renal function tests

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Mention different types of anemia
12. What is BMI classify obesity according to BMI
13. Hypoxia
14. What are common insulin preparation
15. What are complications of cirrhosis?
16. Mention 3 signs of liver failure
17. Hypokalaemia
18. Blood brain barrier.
19. What is bronchial asthma
20. What is hemoglobin mention its normal range
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. What are inhalation agents used inside Operation theatre (OT)? explain in detail about sevoflurane

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Morphine – explain mechanism of action, uses and side effects.
3. Explain about reversal agents.
4. Explain Lignocaine uses, different preparations and its side effects.
5. Classify diuretics. Add a note on furosemide.
6. Classify opioids and add a note on fentanyl.
7. Classify antihypertensive drugs.
8. What are different routes of drug administration
9. Atracurium
10. Hydrocortisone- dosages and uses

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write 3 Uses of adrenaline
12. Write 3 Uses of ketamine
13. What are routes of administration of ketamine?
14. Uses of furosemide.
15. Dexamethasone – uses and dosage.
16. Name premedication drugs
17. Uses of midazolam
18. Name 3 beta blockers.
19. Uses of glycopyrrolate
20. What are side effects of succinyl choline?
21. Lumbar vertebral bodies

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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. Give a brief overview of ischemic heart disease (IHD) and the preoperative evaluation of IHD patients.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Management of Hyperkalaemia
3. Status epilepticus
4. Pulmonary Function Test
5. Events in Neuromuscular Junction
6. Glomerular Filtration Rate
7. Distribution of body Fluids
8. Management of Diabetic ketoacidosis
9. Composition and function of Blood.
10. Diagrammatic representation of CSF circulation.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Triple manoeuvre.
12. Juxtaglomerular Apparatus.
13. Trendelenburg Position
14. BMI
15. Chronic Kidney Disease Classification.
16. Furosemide
17. Uses of Mannitol
18. Hypermagnesemia
19. Oliguria
20. Informed Consent
21. Name 3 emergency drugs