

# BLDE (DEEMED TO BE UNIVERSITY)

## B.Sc. in Anaesthesia Technology

[Time: 3 Hours]

[Max. Marks: 80]

### III SEMESTER

#### PAPER - I (Introduction to Operation Theatre)

QP CODE: 8350

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 the techniques used for identification of epidural space and the steps in preparation of patient for epidural anaesthesia in sitting position

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Importance of Nil per oral (NPO) status.
3. Classify types of anaesthesia.
4. Handwash technique
5. Enumerate inhalational anaesthetic agents used in OT and explain briefly about isoflurane.
1. ET tube - Explain parts and uses and sterilization technique
- 6.
7. Indications and contraindications of blood transfusion..
8. Capnography
9. Compare LMA with O2 mask.
10. Enumerate drugs used for spinal anaesthesia
11. Explain sterilization principles

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

12. Define cold sterilization
13. Three methods of sterilization of anaesthetic equipments
14. Betadine
15. 3 uses of thiopentone sodium.
16. Bradycardia.
17. Types of cylinders
18. Ondansetron.
19. Vecuronium.
20. Oropharyngeal airway – diagram and label
21. Atropine-3 uses

**BLDE (DEEMED TO BE UNIVERSITY)**

**B.Sc. in Anaesthesia Technology**

[Max. Marks: 80]

[Time: 3 Hours]

**III SEMESTER**

**PAPER - II (Introduction to Anaesthesia Technology)**

**QP CODE: 8351**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**10X1 = 10 Marks**

**Long Questions**

1. A female patient, 60 years old, is posted for total hip replacement. Which anesthetic option will be selected? Describe the steps involved, the preparation, and complications

**5 X 8 = 40 Marks**

**Short Essays: (Any – 8)**

2. Epidural Tray
3. Shock-Define and Classify
4. Intravenous cannula.
5. Spinal needles
6. Recovery room monitoring of patient
7. Two different IV Fluids
8. General physical examination
9. Preanesthetic evaluation (PAE) of patient
10. Positions in anesthesia

**3 X 10 = 30 Marks**

**Short Answers: (Any – 10)**

11. Components of intubation kit
12. Sites of cannulation
13. Trendelenburg position
14. NBM Guidelines
15. Crystalloid v/s Colloid
16. Ropivacine
17. Name 3 upper limb blocks
18. What is etCO<sub>2</sub> and its normal range?
19. NBM guidelines
20. Hydrocortisone
21. Classify Supraglottic Airway

# **BLDE (DEEMED TO BE UNIVERSITY)**

## **B.Sc. in Anaesthesia Technology**

**[Time: 3 Hours]**

**[Max. Marks: 80]**

### **III SEMESTER**

#### **PAPER - III (Principles of Anaesthesia)**

**QP CODE: 8352**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### **Long Questions**

**10X1 = 10 Marks**

1. Classify breathing circuit. Explain Bain's circuit with neat labelled diagram

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Various routes of injections.
3. Non-rebreathing oxygen mask [NRM] advantages and disadvantages
4. ENTONOX
5. Methods of O<sub>2</sub> administration.
6. Describe nitrous cylinder with respect to pressure, volume, color and pin index.
7. Pin index system
8. Explain Urinary catheterization steps
9. Pulse oximeter.
10. Capnography

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. DISS for piped gases
12. Mention the conditions in which pulse oximeter readings are inaccurate.
13. Various sites of IM injections.
14. Advantages of circle system
15. IV cannula with color coding and sizes
16. Ryles tube importance.
17. oxygen cylinder
18. Disadvantages of circle system.
19. Importance of input and output chart.
20. Blood glucose level
21. Urine output importance

# **BLDE (DEEMED TO BE UNIVERSITY)**

## **B.Sc. in Anaesthesia Technology**

[Time: 3 Hours]

[Max. Marks: 80]

### **III SEMESTER**

#### **PAPER – IV (ATOT Directed Clinical Education I)**

**QP CODE: 8353**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### **Long Questions**

**10X1 = 10 Marks**

1. Describe preparation of adult male patient for epidural anaesthesia. Explain methods to identify epidural space

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Describe different positions of Spinal Anaesthesia
3. Compare Spinal vs General Anaesthesia
4. Short note on pre anaesthetic assessment of patients
5. Explain Premedication drugs
6. What are the drugs used for spinal anaesthesia? mention the dosage
7. Methods of disinfectants of OT instruments
8. Define sterilisation
9. Short note on OT sterilisation
10. What are induction agents? Explain propofol

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Atropine 3 uses
12. Uses of succinylcholine
13. Briefly explain how to insert oropharyngeal airway
14. Zones of operation theatres
15. Uses of furosemide
16. Uses of ketamine
17. Draw labelled diagram of laryngoscope
18. Surgical spirit
19. Hand wash technique
20. Betadine uses
21. Parts of ET tube