

11/1/26

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Anaesthesia Technology

[Time: 3 Hours]

[Max. Marks: 80]

V SEMESTER

PAPER - I (Basics of Surgical Procedure)

QP CODE: 8550

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is blood transfusion? Enumerate indications and contraindications of Blood transfusion.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Pre-operative assessments of patients.
3. What are the different types of colloids? Explain Hetastarch.
4. Explain the causes of Hypothermia and intraoperative measures to prevent hypothermia.
5. Different types of Diathermy machine.
6. Positioning in anaesthesia.
7. What are the uses of comfort devices?
8. Operation theatre sterilization.
9. Various types of blood and blood products.
10. Explain regarding the management of a patient in hypovolemic shock.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. IV Cannula with color coding and sizes.
12. Various sites of IM injections.
13. What is Coombs test?
14. Causes of Hyperkalemia and its management.
15. What are Types of IV fluids?
16. Suture care.
17. What are Blood transfusion complications?
18. Components of total parenteral nutrition.
19. How you will put Ryles tube.
20. Types of operation lights and light sources.
21. Intubation kit.

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V SEMESTER

PAPER - II (CSSD Procedures)

QP CODE: 8551

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What do you mean by sterilization? Explain in short about central sterile supply department (CSSD).

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe special care about sharp instruments.
3. Explain how to carbolize the operation theatre.
4. Classify chemical sterilization.
5. Explain sterilization principles.
6. What is the principle of moist heat sterilization
7. Hand wash technique.
8. What are techniques of ET tube sterilization?
9. What are the hazards of sterilization?
10. What are the steps to prevent hazards of sterilization?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Wrapping materials used in CSSD.
12. Formaldehyde.
13. Antiseptic.
14. What is fumigation?
15. What is autoclave?
16. Surgical spirit
17. Betadine.
18. Mention 4 zones of operation theatre
19. Packing of instruments.
20. 3 methods of sterilization of anaesthetic equipments.
21. HEPA filter.

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V SEMESTER

PAPER - III (Advanced Anesthesia Techniques)

QP CODE: 8552

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is ECG? Enumerate the various ECG leads with a suitable diagram. Discuss the waves in ECG and their importance.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. How do you reduce infection in operation theatre?
3. Define hyperkalemia? Describe its management.
4. What is blood pressure? describe factors affecting blood pressure
5. Importance of pulse rate and what are the sites to measure it.
6. What is normal blood pressure at different ages?
7. What are modes of ventilators?
8. Describe the procedure of normal intubation briefly.
9. Draw a neat labelled diagram of glottic opening.
10. Components of circle systems.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Trendelenburg position in anaesthesia practice.
12. What is respiratory acidosis? mention the causes
13. Ischemic heart disease importance to anaesthesia
14. Write commonly used vapouriser's in operation theatre
15. Importance of liquid oxygen.
16. Write coding for biomedical waste management
17. What is hypotension
18. Upper respiratory tract components
19. What is tachycardia
20. Normal respiratory rates at different ages.
21. List major valvular heart disease

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V SEMESTER

PAPER - IV (ATOT Directed Clinical Education III)

QP CODE: 8553

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Preparation of patient and anaesthetic Management in a Patient with diabetes posted for emergency laparotomy for duodenal perforation

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Pulse oximeter
3. Explain AMBU Bag with neat labelled Diagram
4. COLS
5. Draw a neat diagram of Normal ECG wave form
6. OP Poisoning Management
7. Mallampatti Grading
8. CPR in infants
9. Classify Anti-Diabetic Drugs
10. Explain Mapleson's Circuit with diagram

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Triple maneuver
12. Train Of Four
13. Uses of Neostigmine
14. RL Fluid
15. Valsalva maneuver
16. Classify Local anaesthetic drugs
17. Soda Lime
18. Defibrillator
19. Neuromuscular Junction – Labelled Diagram
20. Non-Rebreathing Mask
21. Physiology of Heart Sounds