

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Operation Theatre Technology

[Time: 3 Hours]

[Max. Marks: 80]

VI SEMESTER

PAPER - I (Basic Intensive Care)

QP CODE: 8645

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain in detail about care of unconscious adult and Pediatric patients?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain Attachment and intraoperative utility of ventilators?
3. Define physiotherapy? Mention purpose, methods of physiotherapy.
4. Explain short note on transport ventilators?
5. Explain Care and maintenance of ventilators?
6. What is defibrillator? Its types, indication?
7. Define nasogastric tube and explain about Ryle's tube insertion?
8. Explain principles of ABG machine?
9. Explain ICU laboratory tests?
10. Oxygen Therapy

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Glasgow coma scale?
12. Short note on suction machine?
13. List indications of oxygen therapy?
14. Write short notes on care and maintenance of suction machine?
15. What are the controlling measures of pollution in ICU?
16. Short note on mouth-to-mouth ventilation?
17. What is the intraoperative utility of monitoring devices?
18. What are the psychological aspects of the patient?
19. Explain principles of asepsis?
20. Short note on oxygen therapy?
21. What are the indications of Ryle's tube insertion?

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VI SEMESTER

PAPER - II (Specialised Surgery & Anaesthesia)

QP CODE: 8646

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain in detail about central venous cannulation- its indication, sites, procedure, ~~complications~~.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Angiography
3. Explain about Defibrillator – Indications, Types, Mechanism .
4. Explain about thoracic procedures, indications, complications.
5. Anaesthetic and surgical requirements during laparoscopic surgery.
6. Write in detail about ETCO₂
7. Define blood pressure. Explain methods of monitoring.
8. Explain femoral venous cannulation. Indication, complication, procedure?
9. Explain cell saver technique-procedure and mention instruments used.
10. Explain about respiratory monitors

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. List positions for spine surgery.
12. Define TEE.
13. List indications of ETCO₂ measurement.
14. Short note on emergency procedures.
15. Write purpose of ECG.
16. Write short note on criteria of preoperative anaesthesia record.
17. List complications of central venous cannulation.
18. What are the techniques of cardiac monitor?
19. List indications of genitourinary surgery.
20. List complications of hernia procedure.
21. Define renal transplantation. Mention indications.

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VI SEMESTER

PAPER - III (Electronics & Technology in Surgery & Anaesthesia)

QP CODE: 8647

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Write in detail about suction machine. Explain care and maintenance.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Discuss regarding the management of operation theatre in routine and emergency.
3. Write short essay on monitors.
4. Explain about engineering aspects of operation theatre equipment.
5. Define anesthesia machine. Explain its components?
6. Electro cautery in surgery
7. Write a note on hospital information system.
8. Operating lights.
9. Defibrillator
10. Servo stabilizers

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Role of OT technician
12. Prevention of fire in OT
13. Define inventory
14. List 3 indications of C-arm
15. Define AED?
16. Write about unipolar diathermy.
17. What are the psychological aspects of patients?
18. Write about the working principle of suction machine.
19. Mention 3 different positions on the operating table?
20. Mention 3 points regarding computer data processing?
21. List 3 applications of pressure transducers

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VI SEMESTER

PAPER - IV (ATOT Directed Clinical Education IV)

QP CODE: 8648

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Discuss in brief on the psychological effects on patients, healthcare providers, and families involved in medico-legal situations.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Legal responsibilities of health care professionals
3. Importance of informed consent in various procedures
4. Key benefits of using Computerized Maintenance Management Systems in the operating theatre
5. Effective communication in the high-pressure environment of the OT
6. Benefits of counselling and emotional support to relatives of surgical patients
7. Ethical Considerations in Medico-Legal Cases
8. Difference between Extinguisher and Sprinkler in fire protection system
9. Challenges in hospital information system and computer management in the OT
10. Examples of Medico legal cases in hospital setting.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Psychological dimension of an OT setting
12. How can hospitals foster a culture of safety in surgical environments?
13. What legal requirements must be met when treating a poisoning case?
14. How can the use of technology improve surgical safety?
15. Objectives of Inventory control
16. How does team communication impact surgical outcomes?
17. What measures can be taken to prevent surgical site infections?
18. Psychological aspect of Patient and patient relatives, health care staff
19. What are the common risks associated with surgical procedures?
20. How can hospitals address the challenge of staff training and adaptation to new technologies?
21. How human errors can be mitigated in OT?