

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Operation Theatre Technology

Jan 2nd

[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 the setup, functions, and safety measures of an Intensive Care Unit (ICU).

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe the role of the operation theatre technologist in patient monitoring.
3. What are the steps in maintaining sterility of ICU equipment?
4. Explain types and uses of infusion pumps in ICU.
5. What are the methods of maintaining patient records in ICU?
6. Explain the preparation and care of a patient before ventilation.
7. Describe the types and uses of humidifiers in oxygen therapy.
8. What are the indications and care of tracheostomy patients?
9. Define infection control and explain methods used in ICU.
10. Explain the importance of communication among ICU staff members.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define Intensive Care Unit.
12. Mention the uses of pulse oximeter.
13. What is a nebulizer?
14. Write short notes on infusion sets.
15. List the types of patient monitors.
16. Define aseptic technique.
17. Write short note on patient positioning in ICU.
18. What is the purpose of humidification in ventilation?
19. Mention two functions of the suction catheter.
20. Write short note on safe disposal of bio-medical waste.
21. Define vital signs.

Jan-26

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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. Write about ECG, its indication, procedure, normal ECG?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain central venous cannulation; its indications, steps and complications.
3. Write short note on tracheoesophageal fistula procedure?
4. Explain about surgical requirements during abdominal surgery.
5. Define respiratory rate and explain about respiratory monitors.
6. Explain about the procedure of cardiac catheterization.
7. Write short note on pulse oximetry; its working principle, indications.
8. Explain about major abdominal procedure; indications, complications.
9. Write about different cardiovascular techniques.
10. Define echocardiography? Advantages and disadvantages of Doppler echocardiography?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write different positions for neurosurgical procedures?
12. Define spirometer
13. Explain about non-invasive blood pressure monitoring.
14. Indications of radial artery cannulation.
15. List indications, complications of hernia procedures?
16. Write about steps of fixation of head in neurosurgery
17. Write types of echocardiography
18. What are different cardiac monitors
19. List the contraindications of pulse oximetry
20. Short note on cell saver techniques
21. Write about femoral artery cannulation

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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 operation table? And explain about different positions on operation table?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write a short note on bookkeeping and storage procedures of different articles.
3. Explain about surgical diathermy.
4. Define ventilator? Explain about care and maintenance of ventilator.
5. Anaesthesia workstation.
6. Write a short note on Hospital Information System.
7. Explain about pressure transducers and its application.
8. C-arm machine.
9. Ultrasound in anesthesia and its uses.
10. Pacemaker.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Indication of use of bipolar cautery.
12. Define defibrillator.
13. Servo Stabilizers.
14. Boyle's apparatus-mention parts.
15. Psychological aspects of patients.
16. Mention 3 points-computer data processing.
17. Pulse oximeter.
18. Suction machine-mention parts.
19. Operating table- write its components.
20. Working principle of anesthesia machine.
21. What are sources of fire in OT?

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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 the importance of ethics, communication, and safety management in operation theatre practice.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain the role of technology in enhancing hospital safety and efficiency.
3. Write about the moral and professional duties of OT technologists in emergencies.
4. Discuss the significance of patient counselling before and after surgery.
5. Explain the legal aspects of negligence and malpractice in healthcare.
6. Describe the use of computers in patient data management and hospital communication.
7. Explain how cultural sensitivity helps improve patient care.
8. Write about disaster management and evacuation procedures in hospitals.
9. Explain the importance of maintaining hygiene and asepsis in the OT environment.
10. Describe how human factors and ergonomics influence performance in surgery.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define medico-legal case.
12. Mention any two common causes of medical errors.
13. What is data confidentiality?
14. Write any two roles of an OT nurse or technologist in emergencies.
15. Mention two fire safety precautions in hospitals.
16. Define empathy in healthcare.
17. What are two main objectives of hospital quality control?
18. Mention two examples of ethical dilemmas in surgery.
19. Write short note on team coordination during surgery.
20. Define patient satisfaction.
21. Mention two advantages of using hospital information systems.