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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 oxygen therapy and methods of oxygen delivery?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define TPN? Advantages and disadvantages of enteral feeding?
3. Explain about the psychological aspects of the patient?
4. Explain about ABG detection of patient?
5. Define physiotherapy? Explain different methods of physiotherapy?
6. Explain attachment and intraoperative utility of ventilators?
7. Explain the procedure of suctioning of unconscious patients?
8. Explain asepsis and principles of asepsis?
9. Define CPR and explain about mouth-to-mouth ventilation?
10. Write a short note on HVAC system of ICU?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define non-invasive ventilation? List indications?
12. Explain oxygen therapy and its complications?
13. Define unconsciousness and its causes?
14. What are the ICU laboratory tests?
15. List indications of CPR?
16. What is TPN? and its complications?
17. List indications of Ryle's tube insertion?
18. Explain about short-term ventilation?
19. List indications of suctioning?
20. Short note on air conditioning in ICU?
21. Explain functioning tests of operating lights

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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 about cardiovascular techniques, procedures?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain about Transcatheter Aortic Valve Replacement procedure.
3. Write about central venous cannulation-Landmarks, complications, indications.
4. Write about patient records- intraoperative, postoperative, and preoperative.
5. Echocardiography
6. Write about tracheo-esophageal fistula procedure.
7. Write a short note on Holter monitor.
8. Laparoscopic surgery.
9. Explain different monitoring techniques and equipments used.
10. Discuss heart-lung machine

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define defibrillation. Mention indications.
12. What is nebulization?
13. List the respiratory procedures.
14. Name the different patient positions in neurosurgery.
15. Write about procedure of cell saver?
16. List the indications of blood transfusion.
17. Write precautions taken during operative procedures?
18. What is universal precautions?
19. Define TEE?
20. What is Doppler echocardiography? Write advantages and disadvantages.
21. List 3 emergency procedures.

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B.Sc. in Operation Theatre Technology

[Time: 3 Hours]

[Max. Marks: 80]

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. Explain in detail about anesthesia machine?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are the sources of fire in OT and its preventive measures?
3. Write a short note on inventory control-Types, objectives.
4. Explain about care and maintenance of suction machine.
5. Write about OT table and mention its components.
6. Define defibrillator. Write its types, indications.
7. What are the psychological aspects of patient?
8. Write a short note on diathermy.
9. Define suction machine. Write its components, indications?
10. Explain in detail about servo stabilizers?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What are the roles of OT technician?
12. Define pacemaker.
13. Mention parts of Boyle's apparatus.
14. List 3 uses of ultrasound in anesthesia.
15. Mention 3 objectives of hospital information system?
16. Write 3 precautions in using diathermy?
17. Mention 3 positions on the operating table?
18. Mention 3 parameters measured by monitors?
19. List 3 indications of pacemakers
20. 3 indications of C-arm machine.
21. Mention types of operation light.

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BLDE (DEEMED TO BE UNIVERSITY)
B.Sc. in Operation Theatre Technology

[Time: 3 Hours]

[Max. Marks: 80]

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. Define Hospital Information system. What are the primary functions of a Hospital Information System (HIS) in the operating theatre? How can real-time monitoring through HIS contribute to patient safety during surgery?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Psychological dimension of an OT setting.
3. Stock Maintenance in OT.
4. Key benefits of using Computerized Maintenance Management Systems in the operating theatre.
5. Role of technicians in implementing and adhering to the checklist.
6. Importance of Inventory Management in the Operating Theatre.
7. Ethical Considerations in Medico-Legal Cases.
8. HVAC system.
9. Psychological aspect of Patient and patient relatives, health care staff.
10. Advantages of hospital information system and computer management in the OT.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Elaborate Intraoperative and postoperative safety measures.
12. What legal requirements must be met when treating a poisoning case?
13. What is the importance of postoperative monitoring in ensuring patient safety?
14. How can the use of technology improve surgical safety?
15. Advantages of Hospital information system
16. How does team communication impact surgical outcomes?
17. What measures can be taken to prevent surgical site infections?
18. How does preoperative assessment enhance surgical safety?
19. Objectives of Inventory control
20. How can hospitals address the challenge of staff training and adaptation to new technologies?
21. What is the Role of Surgical Technician in Ensuring Patient Safety?