

2/2/26
PM

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Anaesthesia Technology

[Time: 3 Hours]

[Max. Marks: 80]

VI SEMESTER

PAPER - I (Basic Intensive Care)

QP CODE: 8650

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What does laparoscopic surgery mean? A 40year old male patient posted for laparoscopic appendectomy how do you prepare it.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Draw a neat labelled diagram of ECG?
3. Compare ECF vs ICF?
4. How do you classify IVF fluids?
5. Define shock mention different types of shock with their etiologies?
6. What are major leads of ECG monitored in Operation Theater and its relevance?
7. Explain CO2 cylinder used for laparoscopic surgeries?
8. Explain formula for intraoperative fluid requirement?
9. Hypovolemic shock?
10. What is septic shock? Mention its management.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Components of isolyte P
12. Major ions in ECF
13. Normal blood volume.
14. What is interstitial fluid?
15. Normal PR interval and its importance.
16. What is anaphylactic shock?
17. Uses of 25% Dextrose.
18. Components of RL.
19. Gases used for laparoscopic surgeries.
20. Name three colloids.
21. Name three crystalloids.

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VI SEMESTER

PAPER - II (Specialised Surgeries and Anaesthesia)

QP CODE: 8651

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain clinical examination of respiratory system under inspection, Palpation, percussion and auscultation?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Expand 'PICKLE' and explain each?
3. What is pallor and explain its significance and sites. Where it should be examined?
4. What is edema and its significance?
5. Mention cranial nerves?
6. Explain percussion of abdomen?
7. What is apical impulse and its importance?
8. Examination of motor system?
9. Explain the auscultatory areas and their significance?
10. What is fluid thrill and explain its significance?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Koilonychia?
12. Icterus?
13. Classify cardiac murmurs?
14. Explain characteristics of second heart sounds?
15. How do you examine upper respiratory tract?
16. How do you examine sensory system?
17. How do you examine higher mental functions?
18. Significance of examination of eye?
19. Auscultatory areas of chest for lower respiratory tract?
20. What is significance of auscultatory gap in B.P measurement?
21. Importance of precordium?

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VI SEMESTER

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

QP CODE: 8652

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Provide a definition for a mechanical ventilator. Enumerate and describe the various modes of the ventilators.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is pulse? Mention sites for its measurements
3. Diagrammatic presentation of the pain pathway
4. ACMV mode of ventilator
5. C-PAP
6. Differences between acute and chronic pain
7. How to monitor patients on ventilators?
8. SIMV mode of ventilator
9. Weaning from ventilator
10. What is normal body temperature and how it is regulated?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define pain.
12. What is PEEP?
13. Characteristics of normal pulse.
14. Face's Scale for pain measurement
15. Pulse oximeter
16. Name 3 drugs for chronic pain.
17. Mention 3 mediators of pain.
18. Name 3 drugs for acute pain.
19. Mention newer modes of ventilator
20. Pain receptors
21. Visual analogue scale for pain measurement

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VI SEMESTER

PAPER - IV (ATOT Directed Clinical Education IV)

QP CODE: 8653

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Anatomical and physiological difference paediatric and adults airway? What are the different methods of induction of GA in paediatric patients posted for surgery?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Caudal epidural in paediatric patient
3. Fluid management in paediatric patients posted for surgery
4. Anaesthetic consideration in Lumbar spine surgeries.
5. Diagrammatic representation of CSF circulation.
6. CVP waves and its importance.
7. What are the indications of intubation in ICU?
8. Lithotomy position
9. Common comorbidities of elderly patients
10. Difficulties of spinal anaesthesia in elderly patients.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Induction methods for paediatric patients.
12. Induction agents for neuroanaesthesia.
13. Complications of prone positioning.
14. Indications of tracheostomy in ICU.
15. What is Sims position.
16. Trendelenburg position
17. Spinal nerves – total number and how are they divided.
18. Cerebral autoregulation.
19. Laryngoscope blades for paediatric patients.
20. Selection of ET tube for paediatric patients.
21. Define neonate, infant and paediatric age group.